The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JANUARY 6 1962

Haliborange
TABLETS

MARKET RESEARCH SHOWS
more advertising is bringing more and more sales this season

Sold only by CHEMISTS your profit 33% + BONUS

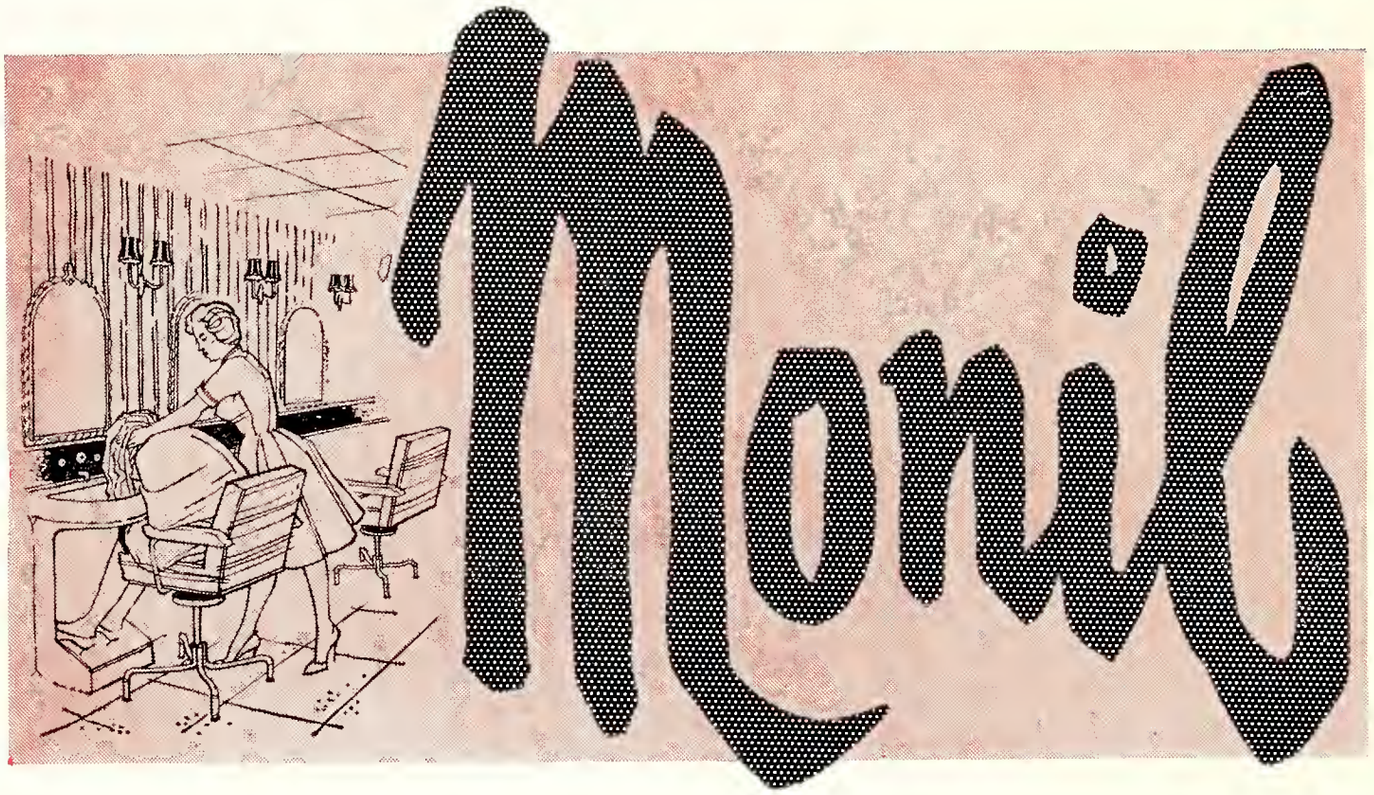
This is your NEW YEAR BONUS OFFER

PARCEL D	3 doz. bottles of 100 **BONUS** 3 bottles of 100 (i.e. 1 free bottle in each dozen)	PARCEL B	8 doz. bottles of 25 1 doz. bottles of 100 **BONUS** 8 bottles of 25. 1 bottle of 100 (i.e. 1 free bottle in each dozen)
PARCEL C	4 doz. bottles of 25 2 doz. bottles of 100 **BONUS** 4 bottles of 25. 2 bottles of 100 (i.e. 1 free bottle in each dozen)	PARCEL A	12 doz. bottles of 25 **BONUS** 12 bottles of 25 (i.e. 1 free bottle in each dozen)

Any number of Bonus Parcels can be ordered
THIS OFFER ENDS FEB. 9th 1962

ALLEN & HANBURYS LTD LONDON

IN THE SALON . . . MADAME CHOOSES





COLOUR SHAMPOO

NOW you can supply her favourite!

For years MONIL Colour Shampoos have been the favourite choice in the smartest salons—and now women everywhere can achieve the look of professional perfection by using MONIL in their own homes. Available in 17 glorious shades, MONIL are particularly renowned for excellent pure browns and black — notoriously difficult colours with which to obtain completely natural effects. This is why so many women prefer MONIL—and always ask for it by name. They'll be so pleased to recognise their favourite colour Shampoo on YOUR counter!

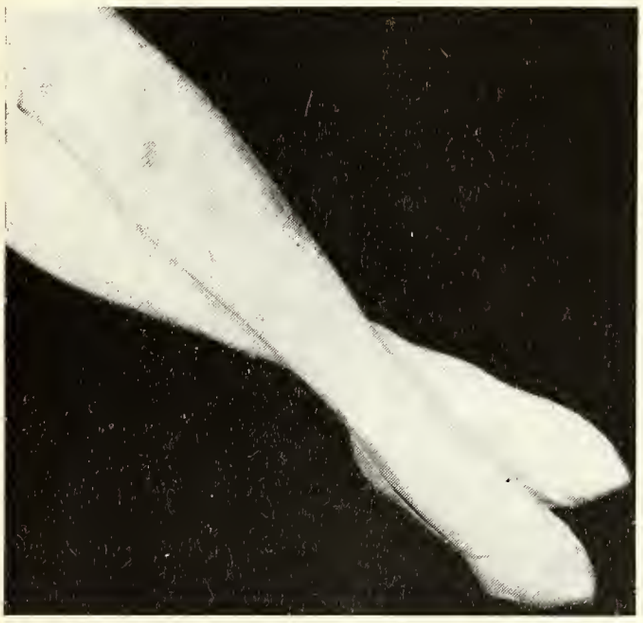
MONIL makes MONEY for YOU★

The name MONIL already rings a bell with smart women—NOW it can ring the bell of your till! MONIL offers a really good profit margin. Display the attractive MONIL pack on your counter and see for yourself how easy it is to make money with MONIL.

MINIMUM RETAIL PRICE 4/1½ per bottle.
24/- per doz. (plus P.T.) Carriage paid 5 doz.

Order from your usual Wholesaler or in difficulty write to:

MONIL LTD, Hunmanby, Filey, Yorks.



Prescribed for effective and lasting support of varicose veins

BURSON

2-WAY STRETCH LASTEX HOSIERY

* **ELEGANCE**
* **COMFORT**
* **DURABILITY**

When your customers ask your advice about tired, aching legs and varicosity, you can depend on BURSON, made to individual measurements.

***BURSON** fully fashioned stockings are supplied with the advantage of many years' specialised research into the manufacture of surgical stockings, and after many years of continuous clinical observation behind them. BURSON Stockings are virtually indiscernible in use because they are woven on patented knitting machines resulting in a very special quality exclusive to BURSON.

***BURSON** Stockings are advertised in the Medical Journals and in a strong list of National Weekly Newspapers and Women's Magazines.

Instruction charts, measurements and outer forms, and special leaflets for your customers are AVAILABLE FREE ON REQUEST.

***BURSON** **Two-way stretch hosiery is made from genuine Lastex yarn—Nylon as well as Cotton.**

PRESCRIBABLE UNDER THE N.H.S.

Sole Distributors: Fassett & Johnson Limited, 86, Clerkenwell Road, London, E.C.1.
also at 6, Crow Street, Dublin.

***BURSON** is the registered trade mark of the Kendall Co., Boston, Mass., U.S.A

THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

THE WEEKLY NEWSPAPER FOR PHARMACY
and all sections of the drug, pharmaceutical, fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and of the Pharmaceutical Society of Northern Ireland

Volume 177 January 6, 1962 No. 4273

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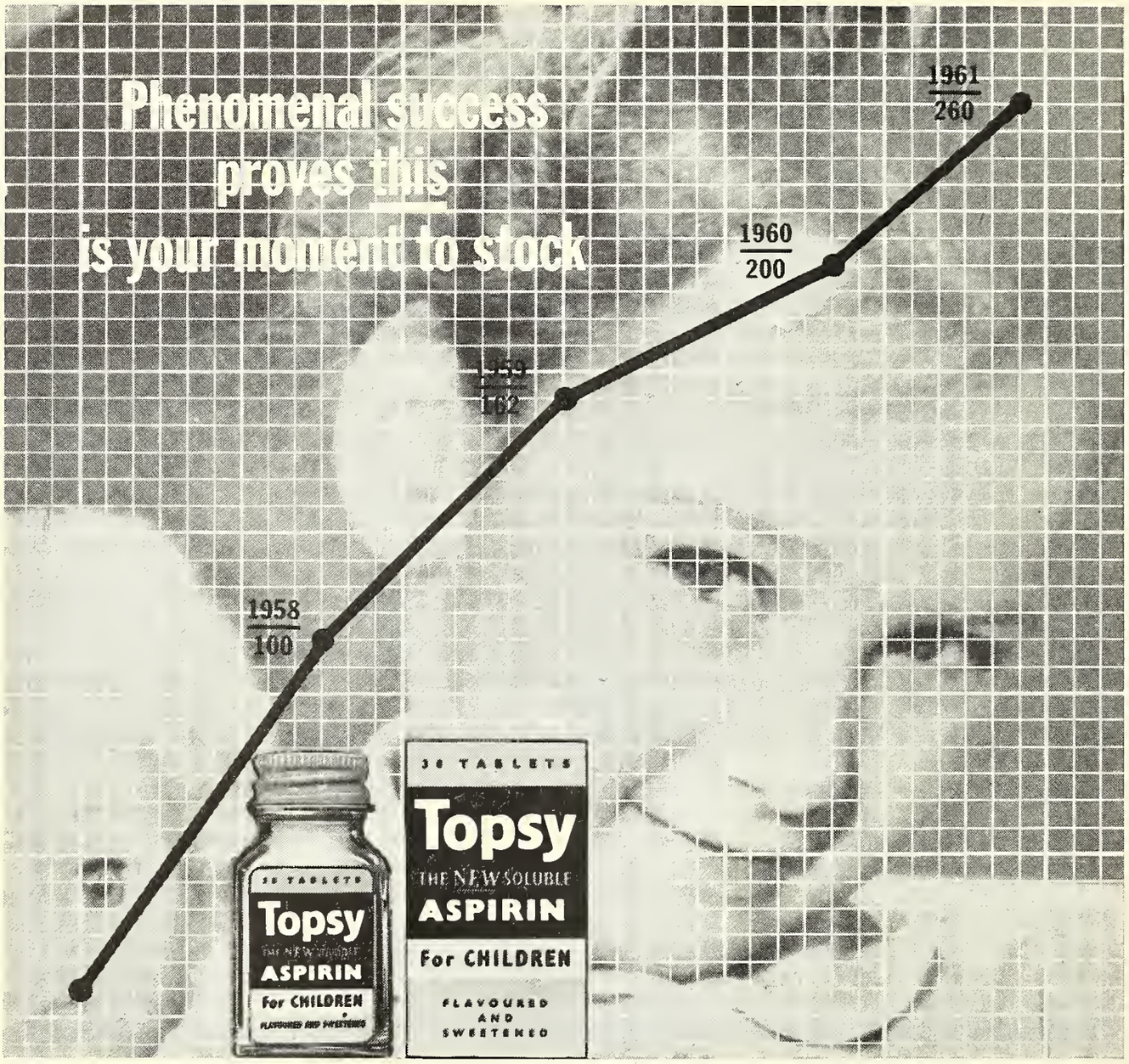
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LEEDS, 16: 32 Wynford Rise, West Park. *Phone: Leeds* 67 8438.
WOLVERHAMPTON: 89 Woodland Avenue, Tettenham Wood. *Phone: Wolverhampton* 52301.

ANNUAL SUBSCRIPTION
which includes The Chemist and Druggist Diary and Year Book, £2 10s. Single copies one shilling each.



Topsy—the new children's aspirin that dissolves on the tongue and tastes like a sweet

Flavoured. The sweetened raspberry flavour makes TOPSY easy to give to children who dislike the taste of aspirin.

Soluble. TOPSY Aspirin dissolves quickly on the tongue.

Precise Dosage. The 1.25 gr. tablets can be given in correct dosage to children aged 1 to 14 years.

Versatile. Relieves teething troubles, feverish colds, headache, earache and minor muscular pains.

Attractive Price. A bottle of 30 tablets retails at 1/-.

Quick Repeat Sales. Because the recommended dose is from 1 to 4 tablets according to age, mothers soon come back for more.

Good Profit. TOPSY sells on sight from the attractive counter display pack—makes you good, all-the-year-round profits.



Display this TOPSY dispenser prominently on your counter.



Draw them into your shop with this eye-catching window sticker.

Order TOPSY *from your wholesaler or from*
TOPSY PHARMACEUTICALS LTD., FOUNTAIN STREET, OLDHAM, LANCS.
Telephone: Oldham Main 6226

Topsy REGD
THE NEW SOLUBLE ASPIRIN FOR CHILDREN

The CHEMIST AND DRUGGIST

Volume 177 JANUARY 6, 1962 No. 4273

Agricultural Chemicals

RECOMMENDED SAFETY MEASURES

THE Ministry of Agriculture has issued "Recommendations for safe use in Great Britain" of MCPA (4-chloro-2-methyl phenoxyacetic acid), a selective translocated herbicide used for the control of weeds in flax, cereals, asparagus, grass seed crops, lawns, linseed and sports turf.

The advisory committee considers that the compound or its salts need not be included in the Agriculture (Poisonous Substances) Regulations. Their use should not present a hazard to operators provided they observe the following precautions, which should appear on the label:

WASH SPLASHES from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

The use of MCPA as a pre-sowing, pre-planting, or post-emergence herbicide on any edible crop should not present a hazard to consumers, and is unlikely to be harmful to animals, birds and bees. As a general precautionary measure the following advice, which should appear on the label, should be observed:

KEEP LIVESTOCK out of treated areas for at least two weeks if poisonous weeds, such as ragwort, are present.

HARMFUL TO WATER SUPPLIES AND FISH. Do not contaminate ponds and waterways with chemical or used container.

STORE TIGHTLY CLOSED in a safe place.

WASH OUT CONTAINER THOROUGHLY and dispose of safely.

There is also a reminder that cereal seed treated with dressings containing aldrin, dieldrin or heptachlor can be dangerous to wild life, and should not be used on spring-sown cereals or at any other time except on winter sown wheat (up to the end of December) and then only where there is a danger of attack from wheat bulb fly. Treated seed should not be fed to animals, poultry, or wild birds or left where they can get at it.

Samples Below Standard

BIRMINGHAM ANALYST'S REPORT

SOME retail pharmacists' stock lines submitted to food and drugs sampling officers in Birmingham for analysis during the third quarter of 1961 are reported by the city analyst to have been found substandard. Three samples of Seidlitz powder of a single firm's manufacture but taken from three different shops were all found deficient in tartaric acid. The British Pharmaceutical Codex requires the "white" papers to contain 2·25–2·75 gm. of the acid, but amounts found in the specimens concerned were 1·97 and 1·95, 1·65 and 1·80, 1·89 and 1·64 gm. respectively. The manufacturer stated that the powders had been packed by automatic weighing. Frequent check weighing was used to ensure that the machines delivered correctly. The report comments: "There was no doubt that an occasion had arisen when there was a failure both of the machine and the human element and that check weighing had not been accurately carried out." All faulty stocks had been recalled. A sample of Parrish's chemical food tested contained only 0·33 per cent. of iron (against 0·40–0·45 per cent. in the B.P.C.), the remainder being in the form of a sediment at the bottom of the bottle. The sediment, states the report, normally consists of a basic ferric phosphate which is not absorbed by the system and is therefore therapeutically inactive. All stocks of the offending article had been returned to the manufacturers. A sample of sulphur ointment which, according to the British Pharmacopœia, should contain 9·5–10·5 per cent. of sulphur, was found to contain only 7·9 per cent. All stocks of the ointment had since been returned to the suppliers for investigation. Two samples of drugs believed to be several years old were examined for potency. One sample was of a 10 per cent. solution of vitamin C in propylene glycol. 8·8 per cent. was still present but the solution was brown and had developed a fruity odour. The other sample consisted of tablets of a proprietary ferric iron salt: they had retained their physical appearance (i.e., they were firm, shiny and not discoloured), but had developed a strong meaty odour. "Neither sample could be described as entirely satisfactory." An emulsion for the treatment of hair pests was examined for compliance with its stated formula, namely 2 per cent. of DDT and 15 per cent. of hydrocarbon oils: 2·4 per cent. of the former ingredient and 14 per cent. of the latter were found, indicating that the sample was chemically satisfactory.

Nielsen Drug Index

TURNOVER UP 7 PER CENT.

THE average weekly turnover obtained in retail pharmacies during a four-week period in September-October 1961, was £5,024,000 an increase of 7·1 per cent. over the corresponding period of the previous year, states the Nielsen Drug Index Retailer Report. National Health Service receipts during the same period, although higher than the corresponding period of the previous year, were nevertheless lower as a percentage of total retail pharmacists' turnover, at 24·6 per cent. for multiples and 33·8 per cent. for independents. The average weekly cash sales in retail pharmacy



A CLOCK ON RETIREMENT: Mr. Joe Powell, foreman of the packaging department of Bronco, Ltd., London, with the clock he received from his colleagues after fifty-six years' service with the company. The managing director (Mr. E. H. Nankivell) (third from left) presented Mr. Powell with a cheque from the company.

were:—Multiples £366; large independents £300; medium independents £166; small independents £90. Compared with the corresponding figures for 1960, the increased percentage changes were:—Multiples 8·8; all independents 7·7. It is estimated that the multiple pharmacies obtained 37·8 per cent. of the total turnover during the period, whilst large, medium, and small independents obtained 26·0, 19·9 and 16·3 per cent. respectively. The average weekly National Health Service payments per shop were:—Large independents £156; multiples £124; medium independents £99; small independents £56. During September 1961 independent pharmacies dispensed 67·6 per cent. of the National Health Service prescriptions (an average of 944 per shop per month), whilst the multiple pharmacies dispensed 32·4 per cent. (an average of 1,382 per shop per month). National Health Service payments amounted to 24·6 per cent. of the total turnover in multiple pharmacies and 33·8 per cent. in independents.

P.A.T.A. Council

1962 ELECTION RESULTS

FIVE candidates contested the four vacancies in the retail section of the Proprietary Articles Trade Association Council in the elections held recently. The figures were:

RETAIL SECTION

ELECTED

Bloomfield, J. C.	..	1,664
Morgan, G. E. ..	..	1,524
Goodall, J. E. ..	..	1,438
Crawford, D. J.	..	1,114

NOT ELECTED

Garrett, A. G. ..	..	1,074

Voting papers issued numbered 10,521, of which 1,950 were returned, twenty-six being disallowed. In the *wholesale section,* there was no contest. The following companies being returned unopposed: Butler & Crispe, Ltd., London; Hall Forster & Co., Ltd., Newcastle-on-Tyne; Hirst Brooke Goodalls, Ltd., Leeds; James Woolley, Sons & Co., Ltd., Manchester. In the *manufacturers' section,* also there was no contest, and the following retiring candidates were returned unopposed: Allen & Hanburys, Ltd., London; Elliman, Sons & Co., Ltd., Slough; Lincoln & Midland Counties Drug Co., Ltd., Lincoln; Parke, Davis & Company, Hounslow.

1961 Distribution Census

FIRST FULL ANALYSIS SINCE 1950

HALF a million shopkeepers have just been sent forms for the Census of Distribution covering trade in 1961. The Board of Trade states that returns should preferably be made for the calendar year 1961, even where that is not a firm's business year; but if that is difficult and an estimate for the calendar year 1961 cannot be made, a business year ending not later than April 5, 1962, may be used. The form should be completed and returned as soon as possible after the end of the business year. The Census of Distribution for 1961 will provide a full analysis of retail business for the first time since the Census for 1950, which was the first to be taken in the United Kingdom. All traders are being asked to give a description of their business, and to state their total turnover, the number of persons working in the business, and whether certain goods were sold.

Population Estimates

LOCAL FIGURES AND TRENDS

TO assist manufacturers, distributors, market-research organisations, local councils and other administrative authorities the Registrar General has published estimates of the population of counties, boroughs, and urban and rural districts in England and Wales at June 30, 1961 (H.M. Stationery Office, price 1s. 6d.) The home population at that date is estimated at 46,166,000, an increase of 411,000 over the figure for mid-1960. Local figures indicate a continued movement of population southwards; an expansion in areas of the midlands, and in some southern areas.

Exchange Fellowships

ANGLO-SWEDISH ARRANGEMENT

THE Wellcome Trustees have entered into an arrangement with the Medical Research Council of Sweden for the establishment of a system of exchange fellowships under which one British research worker (or research trainee) in any branch of the natural sciences bearing upon human or animal medicine, will be sent annually to work for one year at a research centre in Sweden, and one Swedish research worker within the same range of disciplines, will be supported at a centre within the United Kingdom for a similar period. The fellowships will include stipends ranging from £1,000 to £2,000 a year.

Import Duty

LIST OF EXEMPTED CHEMICALS

THE Import Duties (Temporary Exemptions) (No. 9) Order, 1961, effective from January 1, lists all goods (mainly chemicals) temporarily exempt from import duty on January 1, 1962. In most cases, the goods are exempted from import duty until January 1, 1963, unless some other date is specified in the Order. The Order, which is published as Statutory Instruments 1961, No. 2398, also provides for certain new temporary exemptions and extends the period of exemption by another year for a number of others.

SCOTTISH NEWS

Chemotherapy in Review

DANGER OF POLITICAL PRESSURE

PROGRESS made during the past thirty years in providing drugs for the control of the great majority of bacterial and viral infections was outlined in Glasgow on November 28, 1961, by Dr. John B. Stenlake (professor of pharmacy), in his inaugural lecture at the Royal College of Science and Technology. The developments, he said, derived from any sources and from the work of many scientists and many institutions but the credit for its organisation must go to the world's pharmaceutical industries, including Britain's. The cost of success was high, and was bound to increase as the more complex problems were tackled. Public memory seemed to be short, and the days when people lived, and often died all too soon, without the benefit of pharmaceutical progress were already forgotten by some who now sought to bring political and public pressure to circumscribe the fortunes of the pharmaceutical profession and industry. The potential for new types of therapy was great, and it would be foolish and uneconomic to halt or even slow the progress of an industry that was capable of revolutionising man's existence.

Drug Tariff, Scotland

REVISION OF PRICES

THE prices of a number of injection products in the Drug Tariff, Scotland, have been revised as from January 1, as have the prices for benzoin, B.P., papaverine hydrochloride, B.P., and compound syrup of figs, B.P.C. "Bandages, cotton, conforming, two-way stretch, self binding" are added to the Tariff in 2, 3, 4 and 6 in. widths. New prices are given for cotton elastic bandages, B.P.C.

IRISH NEWS

THE REPUBLIC

Pharmacy Qualifications

I.M.A. WELCOME NEW REGULATIONS

THE Irish Medical Association has welcomed the recently introduced qualification measures for pharmaceutical chemists in Ireland, which call for the taking of a university degree. The first students are now attending courses in University College, Dublin. "Many of the defects of the Irish drug industry are due to the shortage of highly-trained scientific personnel in Irish factories," the Association stated. "Our drug manufacturers may be fighting for their lives within the Common Market before the present pre-pharmacy students receive desirable degrees, based on research. Hospital pharmacies are in great need of reorganisation with the ever increasing output of potent drugs. It is not good enough to leave such pharmacies in the hands of medical personnel."

THE NORTH

Ulster Associates

MONTHLY COMMITTEE MEETING

THE December 1961 meeting of the Associates' Committee of the Ulster Chemists' Association was held in Belfast, on December 11, Mr. J. H. Galbraith (chairman) presiding. A report of the social subcommittee meeting held on November 27, 1961, was received which set out various arrangements for the annual dinner and dance to be held on March 1, 1962. It was unanimously agreed to co-opt Mr. D. B. Harper to the social subcommittee, and that Mr. R. J. Davidson should be appointed as the Associates' representative on the C. W. Young Scholarship Fund Committee.

NEWS IN BRIEF

To help clear farmland of increasing rat infestation, St. Ives, Huntingdons, rural council, is offering rat poison free of charge to townspeople and farmers.

A FIRE at the Stafford Road, London, W.3, factory of Lincoln Chemicals, Ltd., on Boxing Day, 1961, destroyed the roof and part of one wall.

A WORKING liaison in cancer research has been established between the Marie Curie Memorial Foundation's new unit at Caterham, Surrey, and research organisations in the United States.

AN inquiry into current methods of recruitment, training and promotion of administrative and clerical staffs in the hospital service is to be set up by the Minister of Health (Mr. Enoch Powell).

BURST pipes over the Christmas holiday, 1961, at the Loughborough factory of Genatosan, Ltd., resulted in about fifty women workers having to be sent home on the morning on which they reported back for work after the holiday.

EXPERIMENTAL tests of transatlantic communications via satellites are to take place during 1962. The Post Office is providing a ground station at Goonhilly Downs in Cornwall at an estimated cost of £600,000.

AMONG courses planned by Ashridge College, Berkhamsted, Herts, is one designed for managers in retail business. It aims to increase the efficiency and profitability in retailing, and the skills and effectiveness, of the manager. The course begins on February 26 and lasts a week.

WAGE negotiations for 60,000 chemical workers were reported to have reached deadlock on December 20, 1961, after a four-hour meeting of the Chemical and Allied Industries Joint Industrial Council in London. The next meeting, under an independent chairman, is being held on January 25.

THE Chemical Works Ambulance (Amendment) Regulations, 1961 (H.M. Stationery Office, price threepence), which come into force on January 19, impose a requirement that a responsible person shall always be readily available during working hours to summon an ambulance or other means of transport if needed in cases of accident or illness.

THE Plastics and Polymer Group of the Society of Chemical Industry has decided to institute an annual award of £50 for a paper on any aspect of the science of synthetic macromolecules. The competition is confined to British subjects and to members of the Society whether British subjects or not, under thirty years of age. Entries (which must be in English) must be submitted by March 31. Full particulars may be obtained from: Plastics and Polymer Group Award, c/o Society of Chemical Industry, 14 Belgrave Square, London, S.W.1.

LOCAL OFFICERS

CHEMISTS' ASSOCIATION

Portsmouth.—*President*, J. W. Baxendale; *Vice-president*, E. W. Morley; *Treasurer*, J. P. Barlow; *Secretary*, P. H. Smith, 145 Tangier Road, Copnor, Portsmouth.

TOPICAL REFLECTIONS

By Xrayser

Tranquillisers for hippopotami

Hippopotami do not readily elicit human solicitude, even behind bars. Although Mr. T. S. Eliot was once prompted to write:

The broad-backed hippopotamus
Rests on his belly in the mud;
Although he seems so firm to us
He is merely flesh and blood.
Flesh and blood is weak and frail,
Susceptible to nervous shock. . . .

and although Messrs. Flanders and Swann (the song writers) have affectionately devoted a ditty to the animal's courtship ritual, it is to be doubted whether the experience of those literary gentlemen was at first hand. Others may now be gaining such direct experience, for Fifi, a hippopotamus who resides at Whipsnade Zoo is, it seems, particularly susceptible to nervous shock. Her affecting story was told in the December 23, 1961, issue of the *British Medical Journal*. According to the article, wild animals, like human mothers, sometimes become temperamental during pregnancy, and when Fifi's case-history opens she was not only pregnant but violently aggressive. In a fit of "maternal confusion" she savaged her mate Neville so severely that he died. "At this stage" the article states, "tranquillisation . . . became a necessity." Promazine hydrochloride was selected as being suitable though, as the veterinary officer to the Zoological Society (Mr. O. Graham-Jones) pointed out, "there is little literature referring to the oral dosage rate of such a drug for a hippopotamus." Unfortunately nobody could approach Fifi to give her an ordinary injection and projectile syringes were ruled out because of the noise of the gun, so oral administration seemed the only way out. As Fifi weighed about 5,000 lb., a daily dose of 10–15 gm. (about fifty times the human dose) was mixed with her evening meal. The article goes on: "She readily ate up her medicated suppers, and the immediate effect was that she allowed Neville's body to be removed without protest. The birth of her infant brought on another display of aggression, but an increase in the dose of promazine hydrochloride counteracted this, and she reared her calf without becoming noticeably jumpy. The happy ending of the story is that Fifi's entry into the outside paddock was uneventful, and both she and her infant took to water quite quietly." Perhaps now the manufacturers of promazine will consider preparing a posology table for animals of all sorts. Who would like to be caught helpless to deal with a temperamental tigress, for example?

Dead stock again

Whenever I "talk shop" with a fellow pharmacist for more than the briefest of conversations, the hoary yet heating subject of mounting "dead stock" inevitably crops up. The bewildering spate of new medicaments (or, as likely as not, of old medicaments in new bottles) confronts the proprietor pharmacist daily in his pharmacy, and he recalls dolefully that "entirely new concept" or "major break through" that was expounded to him before he made the purchase. It may be the listening colleague does little more than give a wry lift to his eyebrow, but his apparently mild and sceptical attitude conceals an equally deep concern. As he passes a dubious eye over his groaning shelves of "ethicals," he may be pardoned his tiny (but honest) doubt as to the unique, unprecedented and indispensable nature of the products on his shelves. I was in much that state of mind when I read the remarks of the Chief Medical Officer to the Ministry of Health (Dr. G. E. Godber) in his annual report (p. 698) and the critical comments on some proprietary medicines in the December 1961 issue of the *Prescribers' Journal* (p. 705). However, the statement that the use of potassium perchlorate tablets in the treatment of thyrotoxicosis and the "new standard analgesic soluble compound codeine tablets" were "reminders that some comparatively simple formulations are still effective therapeutic agents" did at least give me a degree of quiet reactionary comfort.

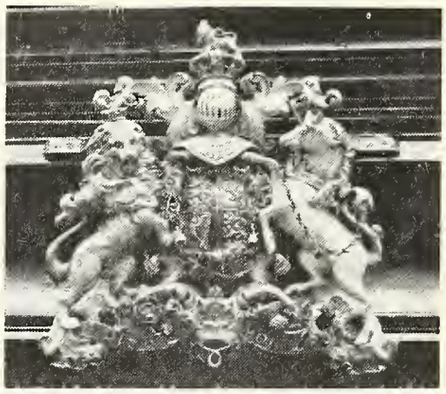
ROYAL WARRANT HOLDERS

1962 list published

INCLUDED in the full list of royal warrant holders published as a supplement to *The London Gazette* on January 1 were the following :—

To the Queen

AIRWICK, LTD., Slough, Bucks (Airwick).
ALLEN & NEALE (CHEMISTS), LTD., King's Lynn.
JOSEPH BENTLEY, LTD., Barrow-on-Humber (horticultural chemicals).
BOOTS PURE DRUG CO., LTD., Nottingham (soap, horticultural and agricultural preparations).
BRITISH GLUES AND CHEMICALS, LTD., London (mineral supplements).
H. BRONNLEY & CO., LTD., London (toilet soap).
WILLIAM BUDDLES & CO., London (chemists).
COOPER, MCDOUGALL & ROBERTSON, LTD., Berkhamsted, Herts (sheep and cattle dips, veterinary preparations).
CORY BROS. (HOSPITAL CONTRACTS CO.), LTD., London (surgical equipment).
JOSEPH CROSFIELD & SONS, LTD., Warrington, Lancs (soap).
CYCLAX, LTD., London (beauty products).
DAY, SON & HEWITT, LTD., London (animal medicines).
FISONS, LTD., Felixstowe (fertilisers).
GASCOIGNE-CROWTHER, LTD., Caversham (dairy cleansers).
D. & W. GIBBS, LTD., London (soap).
WALLACE HEATON, LTD., London (photographic equipment).
HEDLEY, THOMAS, & CO., LTD., Newcastle-on-Tync (soap and detergents).
H. J. HEINZ & CO., LTD., London (Heinz products).
HYGENOL CO., LTD., Leeds (polishes and disinfectants).
ILFORD, LTD., London (photo supplies).
M. L. IRONSIDE, Ballater (chemist).
JEYES' SANITARY COMPOUNDS, LTD., Chigwell (disinfectants).
S. C. JOHNSON & SON, LTD., West Drayton (polishes).
G. B. KENT & SONS, LTD., London (brushes).
JOHN KNIGHT, LTD., London (soap).
KODAK, LTD., London (photo supplies).
LEVER BROS., PORT SUNLIGHT, LTD., Port Sunlight, Ches (soap).
LONDON ESSENCE CO., LTD., London (cleaning compounds).
MACKENZIE & CO. (CHEMISTS), LTD., Edinburgh.
MURPHY CHEMICAL CO., LTD., Wheathampstead (agricultural insecticides).
A. NELSON & CO., LTD., London (chemists).
A. & F. PEARS, LTD., Isleworth (soap).
THOMAS PETTIFER & CO., LTD., Northampton (animal medicines).
POTTER & CLARKE, LTD., Barking (nosegays).
RANK PRECISION INDUSTRIES, LTD., London (cine equipment).
RECKITT & SONS, LTD., Hull (metal polish, antiseptics and disinfectants).
RENTOKIL GROUP, LTD., East Grinstead (rodent control).
C. J. REID (ETON), LTD., Eton (chemist).
ROBERTS WINDSOR, LTD., Windsor (toilet soap and cleaning fluids).
ROGER & GALLET, Paris, France (soap).
L. ROSE & CO., LTD., St. Albans, Herts (lime juice cordial).
SANITAS CO., LTD., London (Sanitas).



ROYAL WARRANT SIGN: Holders of Royal Warrants of appointment to members of the Royal family may display the Royal coat of arms at their premises. A number of pharmacies are among those entitled to do so.

SAVORY & MOORE, LTD., London (chemists).
SHELL CHEMICAL CO., LTD., London (fertilisers and weedkillers).
SHEPHERD'S AEROSOLS, LTD., Frant (Aerovap).
SPILLERS, LTD., London (dog foods, etc.).
SPRATTS PATENT, LTD., London (dog foods).
THAWPIT, LTD., London (Thawpit).
THERMOS, LTD., London (vacuum vessels).
VINOLIA CO., LTD., Isleworth (soap).
YARDLEY & CO., LTD., London (soap).

To Queen Elizabeth the Queen Mother

ELIZABETH ARDEN, LTD., London (cosmetics).
H. BRONNLEY & CO., LTD., London (toilet soap).
D. R. HARRIS & CO., LTD., London (chemists).
WALLACE HEATON, LTD., London (photographic equipment).
THOMAS HEDLEY & CO., LTD., Newcastle-on-Tyne (soaps and detergents).
S. C. JOHNSON & SON, LTD., West Drayton (polishes).
LEVER BROS., PORT SUNLIGHT, LTD., Port Sunlight, Ches (soap).
A. NELSON & CO., LTD., London (chemists).
ROBERTS WINDSOR, LTD., Windsor (toilet soap).
SAVORY & MOORE, LTD., London (chemists).
YARDLEY & CO., LTD., London (perfume and soap).

To the Duke of Edinburgh

WALLACE HEATON, LTD., London (photographic equipment).
PENHALIGON'S, LTD., London (toilet requisites).
RONSON PRODUCTS, LTD., London (electric shavers).
SAVORY & MOORE, LTD., London (chemists).
CHARLES TOPPER, London (toilet requisites).

To the late King George VI

BOVRIL, LTD., London (Bovril).
H. E. CURTIS & SON, LTD., London (surgical appliances).
J. FLORIS, LTD., London (perfumers).
HORLICKS, LTD., Slough (malted milk).
KIA-ORA, LTD., London (fruit beverages).
SODASTREAM, LTD., London (soda water machine manufacturers).

To the late King George V

BEKEN & SON, Cowes, Isle of Wight (chemist and druggists).

To the late Queen Mary

F. G. DE FAYE, LTD., Jersey (perfumers).
FREDERICK SAGE & CO., LTD., London (showcase makers).
SAVORY & MOORE, LTD., London (chemists).
STEINER, London (hairdressers and perfumers).
YARDLEY & CO., LTD., London (perfume and soap).

NEW YEAR HONOURS

THE following awards are included in the New Year Honours List published on January 1.

Baron.—SIR WALTER RUSSELL BRAIN, for services to medicine.

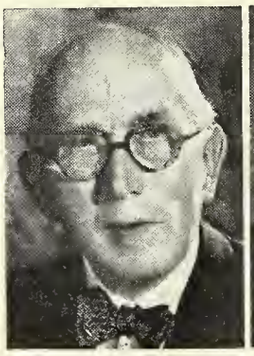
Baronets.—SIR HARRY JEPHCOTT (lately chairman of the Council for Scientific and Industrial Research; chairman of Glaxo Laboratories, Ltd., Greenford, Middlesex). LAURENCE JAMES MENZIES (secretary, Export Credits Guarantee Department). GEORGE TAYLOR (director, Royal Botanic Gardens, Kew). PROFESSOR GRAHAM SELBY WILSON (director, Public Health Laboratory Service). ROY MICKEL WILSON, Q.C. (president of the Industrial Court).

Knight of the Order of the British Empire (K.B.E.)—SIR NORMAN VICTOR KIPPING (director-general, Federation of British Industries).

Commanders of the Order of the British Empire.—J. M. BARNES (director, Toxicological Research Unit, Medical Research Council). H. BARRELL, superintendent (standards division, National Physical Laboratory, Department of Scientific Industrial Research). J. DUNLOP (chairman, Scottish Health Services Council). T. L. GARDNER (chairman and managing director, Yardley & Co., Ltd., London, W.1). T. RITCHIE (principal medical officer, Ministry of Health). J. D. GILLETT (assistant director, East African Virus Research Institute, East African Commonwealth Service Organisation).

Knight Bachelor.—PROFESSOR LORIMER FENTON DODDS, for services to medicine, especially in the field of paediatrics.

Officers of the Order of the British Em-



Sir Harry Jephcott



Sir Norman Kipping

pire.—A. J. AMOS (a partner in Kent-Jones & Amos, analytical and consulting chemists). H. J. T. ELLINGHAM (secretary and registrar, Royal Institute of Chemistry). R. C. J. KENRICK (principal, Ministry of Health).

Member of the Order of the British Empire. — G. F. BAILEY (a higher executive officer, Ministry of Health). E. CULSHAW (a senior executive officer, Ministry of Health). S. H. ELLIOT (chairman and managing director, H. J. Elliot, Ltd., Treforest). G. GREENHILL (lately higher executive officer, Department of Health for Scotland). A. J. HOLDEN (general secretary, Association of British Chemical Manufacturers). MISS B. P. PARK (secretary, London Industrial Safety Committee, Central Metropolitan Group). MISS M. I. SKAN (experimental officer, Royal Botanical Gardens, Kew). J. A. C. SLOAN (chief investigation officer, Ministry of Agriculture, Fisheries and Food). S. J. L. SYKES (a senior executive officer, Ministry of Agriculture, Fisheries and Food.

British Empire Medal.—O. O. HORNBY (process worker, Imperial Chemical Industries, Ltd.).

PERSONALITIES

DR. THOMAS DEWAR, F.P.S., has been appointed chairman of the independent committee that is to inquire into the circumstances which led to the administration to twelve patients at the South Devon and East Cornwall hospital, Plymouth, of overdoses of superficial *x*-rays between November 20 and 28, 1961. Dr. Dewar is a practising barrister on the Western Circuit and an examiner to the Pharmaceutical Society. He is a past-secretary of the London Pharmaceutical Committee and also of The Wellcome Foundation, Ltd. He is perhaps best known to pharmacists and pharmaceutical students for his textbook of forensic pharmacy.

SIR HARRY JEPHCOTT, M.Sc., F.P.S., F.R.I.C., who was created a baronet in the New Year Honours List (see p. 4), is well known to pharmacists in Britain and the Commonwealth. As chairman of Glaxo Laboratories, Ltd., (now Glaxo Group, Ltd.), Sir Harry has made many journeys overseas since his first trip for the company in 1920-21 which took him to Australia and New Zealand. Before and since he received his knighthood in 1946, he has undertaken much public work for Government Departments and educational bodies. He has been chairman of the Council of the School of Pharmacy, University of London, since 1948 and was appointed chairman of the Council for Scientific and Industrial Research, retiring in October 1961 on the completion of his term of office. In that year he was elected an Honorary Fellow of the Royal College of Medicine, and of the Royal College of General Practitioners in November 1960. He was the subject for the "Figure in the Pharmaceutical World" in THE CHEMIST AND DRUGGIST in June 1957. Lady Jephcott is also a distinguished pharmacist. She was the first woman to win the Fairchild scholarship. She took her Ph.C. in 1917 and was awarded the bronze medal for that year. Sir Harry and Lady Jephcott have two sons and five grandchildren.

DEATHS

BLUMENTHAL. — On December 26, 1961, Mr. Maurice Blumenthal, M.P.S., 57A High Street, Plaistow, London, E.13. Mr. Blumenthal, who qualified in 1912, was a former president of the West Ham Pharmaceutical Association.

Mr. W. H. Cloud writes:—I first met Maurice Blumenthal at the West Ham Association's meetings in the early 1930's. He came from Manchester to take over William Potter's business in Plaistow, where he stayed until his death. He was a bright, cheery soul, always with a welcoming smile and pleasant greeting. He attended meetings regularly and was soon elected to the committee of the Association and of the East Metropolitan Branch of the Pharmaceutical Society. He was president twice and remained on the committee until failing health caused him to retire a year ago. A member of West Ham Executive Council and Pharmaceutical Committee, he attended the last Pharmaceutical Service Committee two months ago. Quiet and unassuming, he was always ready to work for pharmacy and for the Society's Benevolent Fund. With Reed, Maxey, Clifford Jones and others he helped to keep West Ham in the forefront of pharmaceutical organisations. He was one of the best type of pharmacists, always ready to help his neighbour and his profession. Mrs. Blumenthal, to whom our sympathies go, is unfortunately in poor health.

BOUSFIELD.—Recently, Mr. Clifford Bousfield, M.P.S., Almondroyd, Leeds Road, Heckmondwike, Yorks. Mr. Bousfield, who qualified in 1921, was formerly in business at Littletown, Liversedge, Yorks.

BREESE.—On November 14, 1961, Mr. Richard George Breese, M.P.S., 18 Crieff Road, Wandsworth Common, London, S.W.18, aged ninety-three.

BREW. — At an Edinburgh nursing home on December 15, 1961, Miss Janet M. Brew, 3 Avenue Road, Cockenzie, East Lothian. Miss Brew was a member of the staff of the Pharmaceutical Society, 36 York Place, Edinburgh, for forty-two years before retiring in 1950, and was well known to many of the older generation of Scottish pharmacists. The Scottish Department, and Edinburgh and South-eastern Scottish Branch of the Pharmaceutical Society and the Pharmaceutical General Council (Scotland) were represented at her funeral.

DAVIES.—On December 5, 1961, Mr. Thomas Benjamin Davies, M.P.S., Loretto, St. Martins Road, Caerphilly, Glamorgan, aged eighty-four.

FREER.—Reeently, Mr. Jeffrey Scott Frcer, M.P.S., 32 Cromwell Road, Cleethorpes, Lincs. Mr. Freer, who qualified in 1933, was the governing director of T. W. Ellis, Ltd., 121 Grimsby Road, Cleethorpes. He was vice-president of the Grimsby Pharmacists' Association and served on Cleethorpes borough council from 1955 to 1958.

HATCHARD.—On December 12, 1961, Mr. Charles George Hatchard, M.P.S., 121 Clapham Park Road, Clapham, London, S.W.4. Mr. Hatchard qualified in 1928.

HIGHTON.—On December 14, 1961, Mr. Robert Albert Highton, M.P.S., 36 Fir Grove, Marton, Blackpool, Lancs. Mr. Highton qualified in 1928.

JACKSON.—On December 13, 1961, Mr. William Frederick Jackson, M.P.S., 31 Donaghadee Road, Bangor, co. Down, Northern Ireland. Mr. Jackson qualified in Northern Ireland in 1927 and became a member of the Pharmaceutical Society of Great Britain in 1933. He was formerly in business in Cavan, later in Bournemouth. A few years ago he retired and returned to Northern Ireland, where he undertook locum duties.

LOTHIAN.—On December 29, 1961, after a long illness, Mr. John Lothian, M.P.S., 19 Sutherland Avenue, Ealing, London, W.13. Mr. Lothian came of a noted pharmaceutical family: his father was principal of the Glasgow School of Pharmacy, while his sister, Mrs. G. R. A. Short, is the present librarian of the Pharmaceutical Society. He was educated at George Watson's College and the Heriot Watt College. His apprenticeship was served under Mr. Peter Boa, Edinburgh, and he qualified in 1933. After further experience in retail pharmacy he joined the advertising department of Burroughs Wellcome & Co. in 1935, under Mr. E. F. Linstead, father of Sir Hugh and Sir Patrick Linstead. During the war years Mr. Lothian was promoted to chief copywriter, a position he was still holding when he was first struck by the illness in 1951 that was to remain with him until his death.

W.A.L. writes:—To work under John Lothian was more than a privilege. It was an education. His interests were so wide, his memory so phenomenal, one might have been abashed but for his puckish and irrepressible sense of humour. Even during the past few months his letters reveal that that gift never left him, though he was fully aware of the very serious nature of his own illness. Although of slim, athletic build, he professed little interest in sport (other than motor cycle and car racing) but, even there, he was able to hold his own in discussion. In his work as a copywriter he was meticulously accurate, his creed being that truth is the best form of advertising. His encyclopædic knowledge of pharmacy and chemistry was always available to his colleagues, and, like all busy men, he seemed to have plenty of time to help others. Everyone who knew him will wish to extend the deepest sympathy to Mrs. Lothian at this time. Her husband's long illness would have become unbearable but for the help which she unstintingly gave to him.

PHELAN. — Recently, Mr. Sylvester Phelan, William Street, Waterford, Eire. Mr. Phelan, who had carried on business as a registered druggist at John Street, Waterford, up to his retirement four years ago, was seventy-four.

PICKERILL. — Recently, Mr. Oris Pickerill, M.P.S., 17 Witnell Road, Manchester. Mr. Pickerill qualified in 1921.

REOCH.—On December 14, 1961, Mr. Alexander Thompson Reoch, 53A

Hawkhill, Dundee. Mr. Reoch qualified as a chemist and druggist in 1892.

ROBINSON. — On December 13, 1961, Mr. Edwin Clegg Robinson, M.P.S., 1a Norman Street, Leicester. Mr. Robinson qualified in 1908.

SMART.—On December 13, 1961, Mr. Walter Reginald Smart, M.P.S., 59 Hill Top Road, Oxford. Mr. Smart, who qualified in 1921, was formerly in business at 18 Florence Park Road, Oxford. In 1954 he was chairman of the local committee of the British Pharmaceutical Conference. Mr. Smart retired two years ago.

SMITH. — On December 11, 1961, Mr. Tom Smith, M.P.S., 145 Corhampton Road, Boscombe, East Bournemouth, Hants. Mr. Smith qualified in 1923.

SMITH.—On December 19, 1961, Mr. John Clayton Smith, M.P.S., 68 Ashbourne Road, Derby. Mr. Smith qualified in 1901.

STEEL.—On December 3, 1961, Miss Martha Miller Steel, M.P.S., 82 Marlborough Avenue, Glasgow, W.1. Miss Steel qualified in 1939.

STEWART.—On December 24, 1961, Mr. John Sutherland Stewart, M.P.S., Hazelbank, Auchterarder, Perthshire, aged eighty-six. Mr. Stewart was in business in Auchterarder for many years until he retired three years ago, and was a member of the town council for a time.

STONE. — On December 21, 1961, Mr. Marcus Hope Stone, M.P.S., 300 West Princes Street, Glasgow. Mr. Stone qualified in 1915.

WHITE. — On December 13, 1961, Mr. Eric White, M.P.S., 1080 Rochdale Road, Blackley, Manchester. Mr. White qualified in 1932.

WIGGINGTON.—On December 3, 1961, Mr. Harold Augustus Wiggington, 43 Court Road, Eltham, London, S.E.9. Mr. Wiggington qualified as a chemist and druggist in 1901.

WILSON.—On December 19, 1961, Mr. Ralph Wilson, Springpark, Uddingston, Glasgow. Mr. Wilson qualified as a chemist and druggist in 1899.

WRIGHT.—On December 27, 1961, Mr. William Duncan Wright, M.P.S., Edwards & Wright, Ltd., Hare Lane, Farncombe, Surrey, aged sixty-four.

COMPANY NEWS

LEWIS & PEAT, LTD.—Mr. T. E. Atkinson has been appointed a director.

COLGATE-PALMOLIVE, LTD. — Mr. J. D. Bourn has been appointed to the board as administrative director.

MILES LABORATORIES, LTD. — Mr. J. A. Brindle and Dr. G. Walker have been appointed to the board.

REED CARTONS, LTD.—Mr. J. E. Dallas has been appointed a director of the company and general manager of its Filmer branch.

SMITH & NEWPHEW PHARMACEUTICALS, LTD. — Mr. Bernard Richens, M.P.S., M.Inst.M.S.M., joined the board of the company as sales director on January 1. He was previously general manager.

GEVAERT PHOTO-PRODUCTEN N.V., Mortsel, Belgium. — The shares are being traded soon on the Frankfurt and Düsseldorf stock exchanges if those bourses grant an application for listing submitted on Gevaert's behalf by a banking consortium.

NICHOLAS PRODUCTS, LTD. — The veterinary division of Nicholas Products, Ltd., has been formed into a new company to be known as Nicholas A. & V., Ltd., under the chairmanship of Mr. R. R. Walker as from January 1. Mr. Bruce V. Jones, M.R.C.V.S., has been appointed managing director of Nicholas A & V., Ltd., Mr. Derek Mitchell, sales manager, and Mr. John M. Olivant, M.R.C.V.S., D.V.S.M., technical manager.

WINTHROP GROUP, LTD. — Mr. George Teeling-Smith, B.A., M.P.S., has been appointed deputy managing director of the group's Bayer Products division. Mr. Teeling-Smith was formerly the division's commercial director; he now becomes responsible to the group managing director (Mr. C. R. B. Williamson) for all Bayer Products operations in the United Kingdom and Eire.



OVERSEAS VISITS

MR. W. E. LUSTY (Lusty's Natural Products Co., Ltd., Westcliff-on-Sea, Essex), is going on a world business tour extending over four months. He will be visiting the company's overseas agents as well as prospective agents.

BUSINESS CHANGES

MR. B. RANKIN, M.P.S.N.I., has opened a pharmacy at 77 Monaghan Street, Newry, co. Down.

E. F. WOOLFORD, LTD., have opened a pharmacy at High Street, Wroughton, Swindon, Wilts. From 1951 to 1959 Mr. E. F. Woolford, M.P.S., was the principal director of H. T. Holme, Ltd., Wallingford, Berks.

BEECHAM PROPRIETARY MEDICINES, LTD., is the name under which the former Beecham Pharmaceuticals, Ltd., St. Helens, Lancs, is now operating. The change took effect on January 1.

THE products division of Rentokil Laboratories, Ltd., Leatherhead, Surrey, having now completely absorbed the retail activities of Thomas Harley, Ltd., that name is now dropped, though the factory at Perth, Scotland, is retained.

THE West London office of the Export Credits Guarantee Department has moved to Cunard Building, 15 Regent Street, London, S.W.1 (telephone: Whitehall 9061); and the Department's Sheffield office to Fargate House, Fargate, Sheffield.

Appointments

DISTILLERS CO., LTD., have appointed Mr. R. M. F. Fenning to be sales director of their chemical division.

A. H. ROBINS CO., Ltd., Horsham, Sussex, have appointed Mr. B. F. A. Kavanagh their medical representative for East London and part of Essex.

IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

DURING an adjournment debate on December 19, 1961, MR. LESLIE HALE referred to problems of onchocerciasis and trypanosomiasis in various parts of the Commonwealth. He felt that not enough research was being done to solve a "most moving human problem." MR. DENNIS VOSPER (Secretary for Technical Co-operation) after stating that during 1960-61 £76,000 was spent on trypanosomiasis by Colonial Development and Welfare funds, said that trypanosomiasis could be controlled and cured. In animal trypanosomiasis not the same progress had been made, but spraying techniques had been developed to assist in clearing areas from the tsetse fly and in the maintenance of fly-free areas, and those techniques were being applied in large areas of East, Central and West Africa. Onchocerciasis had been practically eliminated in Kenya. In Tanganyika it had been curbed and in Uganda reduced. The position in West Africa was not so happy. As with all research there was no limit to what could be done, but it was not entirely true to say that more finance would necessarily provide a solution to the problem. The problem now rested with the West African Governments, but the U.K. would assist. The House adjourned before MR. VOSPER had completed his speech.

I.C.I./Courtaulds Proposed Merger

In the House of Lords on December 20, 1961, LORD SHEPHERD asked if the Government would refer the proposed merger of Imperial Chemical Industries, Ltd., and Courtaulds, Ltd., to the Monopolies Commission. VISCOUNT HAILSHAM said there could be no question, under any existing Act of Parliament, of referring the desirability of the purchase of shares to the Monopolies Commission or to any other existing body.

Sodium Chlorate

MR. J. P. W. MALLALIEU asked the Home Secretary if he was aware that sodium chlorate could easily be made into a dangerous explosive, and that it had caused serious accidents, and if he would introduce legislation to prevent its sale to children. MR. D. RENTON (Under-Secretary of State, Home Department) in a written reply on December 21, 1961, said the Home Secretary was consulting the distributors of the substance with a view to finding the most practicable method of preventing its falling into the hands of young people.

Parliament adjourned for the Christmas recess on December 22, 1961, until January 23.

Correspondence

To Keep Us Quiet

SIR,—Now that we have had so many medical specialities in 1961, I feel sure double that number will appear in 1962. I would suggest that the manufacturers get together and produce one special tranquilliser "for chemists only."

T. P. TOHER,
Sligo, Eire

Thanks to Voters

SIR,—May I express thanks to my supporters who secured my return to the P.A.T.A. Council, and assure them that I very much appreciate this renewal of confidence. The immediate future is one of anxiety for exponents of resale price maintenance, but I will continue to look after the interests of all engaged in retail practice to the best of my ability.

J. C. BLOOMFIELD,
Portsmouth

E Before I

SIR,—Oh, Mr. Editor, what have you done?
Won't it be a daughter or a great big son?
Does the "anti-natal" with no "e"
Mean you are against the unborn he or she?
And that they a twinkle will for always lie
In the ever-expectant father's "i"?
Oh! For shame, proud Sir!

NORMAN W. HUTCHINGS,
Guildford, Surrey

[We might take refuge in a *Shorter Oxford Dictionary* definition: "Var. of ANTE- 'before,'" but in fact the "anti-natal" in a "New Films' paragraph to which our correspondent refers (*C. & D.*, December 23, 1961, p. 679) was an error that escaped our notice. "Antenatal" was intended.—EDITOR.]

Professional Fees

SIR,—Now that we have won the right to a "professional fee" I feel that the Pharmaceutical Society should now press for this fee to be paid direct to the professional man responsible for the dispensing. Once this has been established, the Society would be able by its charter to be our negotiators for *all* pharmacists so far as the fee is concerned, and unity would be ours at last. They could also lay down a scale of fees for private dispensing which would also be the property of the pharmacist no matter what position he held. The business firms concerned would then be able to negotiate separately, under the Contractors Committee, for profit margins for the drugs used in dispensing. I estimate that a pharmacist can reasonably handle personally 1,000 prescriptions per month, for which he would be paid at the present rate £75. He could also earn extra by acting as manager for the business to which he is attached. If the volume of dispensing warranted extra help in the dispensary, that could be paid for out of his extra fees. I would like to hear personally from interested pharmacists what measure of support they would be willing to give to this idea, and also what position they now hold within the Health Service. I am, myself, a proprietor pharmacist with one shop.

K. LARDER, M.P.S.,
12 Marsh House Road, Sheffield, 11

Avoiding the "Hardest Blow"

SIR,—My Committee have given serious consideration to the position which has arisen following the imposition of the sliding scale of remuneration. Whilst this is bound to hurt all our contractors, it is obvious that those who have given the most service to the public are taking the hardest blow. It has occurred to my Committee that, in many cases, those larger dispensing businesses have developed a reasonable turnover in surgical appliances, such as trusses and hosiery. Those are items which require more than the usual amount of personal attention; the reduction in oncost from 25 per cent. to 12½ per cent. will make some of those transactions of doubtful remunerative value and others unremunerative. My Committee therefore suggest that those contractors who handle a reasonable amount of appliances should make application to the Executive Council for a separate contract for appliances, in order that that part of their business should still carry 25 per cent. oncost. The Ministry confirmed some years ago to all Executive Councils that a separate contract for appliances was permissible. Prescriptions ordering other items in the dressings and appliances section of the Drug Tariff (but NOT drugs) could also be included in that separate parcel for pricing.

ANDREW MEDCALFE, *Secretary*,
Lancashire Pharmaceutical
Committee

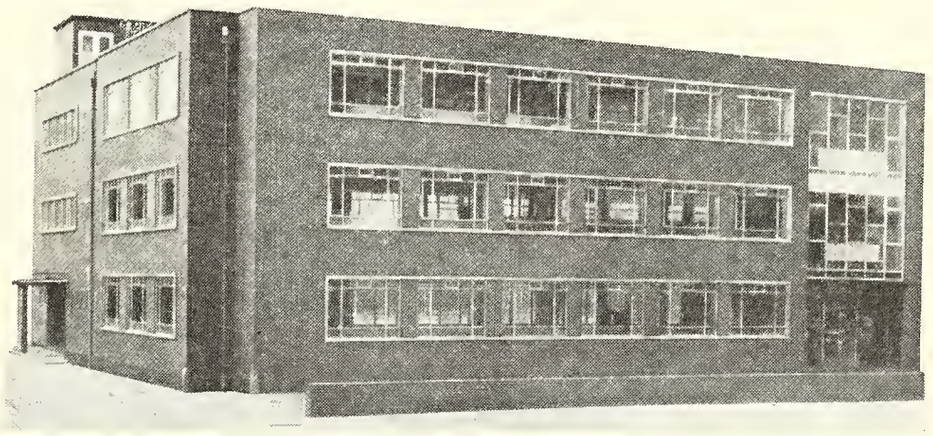
FROM SOMERSET TO WEMBLEY

Ward, Blenkinsop & Co., Ltd., transfer their research laboratories

LIKE most other progressive pharmaceutical manufacturers, Ward, Blenkinsop & Co., Ltd., from their inception in 1939, realised the importance of ploughing back a substantial proportion of the company's profits into basic research. Even before their factory at Halebank, nr. Liverpool, Lancs, was built, research was started at Great Cumberland Place, London. In 1940, however, those premises were bombed, and the laboratories were removed first to Bradford-on-Avon, Wilts, and later to Shepton Mallet, Somerset. The inconveniences attached to being separated from head office by more than 100 miles were often so acute that, when the company obtained new premises at Wembley, the opportunity was taken of bringing research laboratories and central administration under the same roof. The offices were occupied in September 1960 (see *C. & D.*, September 24, 1960, p. 372). Recently the transfer of the research laboratories was completed.

Well-known products that have derived from past research in the laboratories are the antibacterial and antifungal products Viacutan and Penotrane and the plastic dressing Octaflex, incorporating a patented quaternary ammonium antiseptic compound. The progress made is also reflected in the steady rate of publications in scientific journals. Present research at Wembley is being directed to new drugs in the antibacterial, antifungal, hypnotic and anæsthetic fields.

The company also carries out development research at the main factory at Halebank, and at the premises of the subsidiary companies, Harker, Stagg, Ltd. (ultra-violet absorbers and industrial products) and Sorex (London), Ltd. (insecticides, rodenticides, etc.). At the premises of those companies is carried out the formulation of new products as well as the preparation of the



The laboratories occupy the whole of one floor, and have facilities for chemical, bacteriological and pharmacological work. Largest single unit is a chemical laboratory in which new synthetic compounds are prepared for evaluation by the bacteriological and pharmacological sections. A spacious pharmacology laboratory is well equipped for carrying out a wide range of biological tests.

existing range of WB and Harker, Stagg medical specialities and standard tablets, the Sorexa rodenticides, and the Sorex insecticides and horticultural products. Tableting and other pharmaceutical operations are undertaken at the Bombay premises of Ward Blenkinsop & Co. (India), Pte., Ltd.

NEW PRODUCTS AND PACKS

Greaseless Medicated Cream.—Dae Health Laboratories, Ltd., 17 Berners Street, London, W.1, are launching a new product Dermasan greaseless medicated cream for the treatment of acne spots and pimples. The pack is a tube.

Offered in Ampoules. — Roche Products, Ltd., 15 Manchester Square, London, W.1, advise that their psychotherapeutic speciality Librium is available as ampoules in pack of three dry ampoules (100 mgm.) plus solvent ampoules. The ampoules are not subject to tax.

Topical Corticosteroid.—Eli Lilly & Co., Ltd., Basingstoke, Hants, announce the introduction of a new topical corticosteroid, Drenison brand flurandrenolone (available also with neomycin). Both preparations are supplied as either cream or ointment, each in packs of 5 gm. and 15 gm.

A Palatable Antacid.—Riker Laboratories division of Vantorex, Ltd., Morley Street, Loughborough, Leics, have launched a new "highly palatable" antacid preparation containing calcium carbonate and glycine. The product, Titralac, is available in packs of 100 (ten rolls of ten) and 1,000 (100 rolls of ten).

Digoxin Tablets for Infants. — Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce the issue of a new speciality Lanoxin brand paediatric tablets, each containing 0·0625 mgm. of digoxin. The tablets have been made available to complement Lanoxin paediatric elixir in the easy management of infants and young children requiring digoxin therapy. The blue tablets are easily distinguishable from Lanoxin brand digoxin tablets. The pack is a bottle of 100.

Canine Vermicide.—Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce the introduction of Ancaris brand thenium compound tablets (veterinary) for the control of hookworm and roundworm infestations in dogs. Ancaris is issued in bottle of 100 tablets and in box of forty-eight (twelve descriptive folders each containing four tablets). A prescription product, Ancaris is supplied to pharmacists to meet the orders of veterinary surgeons.

Veterinary Injectable Antihistamine.—CIBA Laboratories, Ltd., Horsham, Sussex, announce the introduction of an injectable general-purpose antihistamine, Vetibenzamine, for veterinary use. Its use is claimed both convenient and economical. The product is available in 100-mil multidose vial for intramuscular or intravenous injection, and is equally suitable for allergic conditions in large or small animals. Vetibenzamine is intended to be supplied only to veterinary surgeons or to meet their prescriptions.

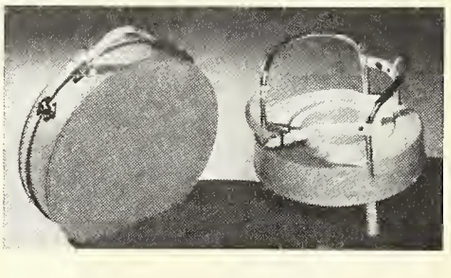
For Treating Hypertension.—CIBA Laboratories, Ltd., Horsham, Sussex, announce the introduction of a new speciality Ismelin-Navidrex K tablets for the treatment of hypertension in general practice. Each tablet contains 10 mgm. of Ismelin and 0·15 mgm. of Navidrex together with 400 mgm. of potassium chloride. The combination is understood to enable the dose of Ismelin to be reduced and to permit better control of blood-pressure with less side effects. The potassium chloride is in a slow-release core that avoids nausea or gastric disturbance without affecting absorption. The packs are bottles of twenty-five, 100 and 500.

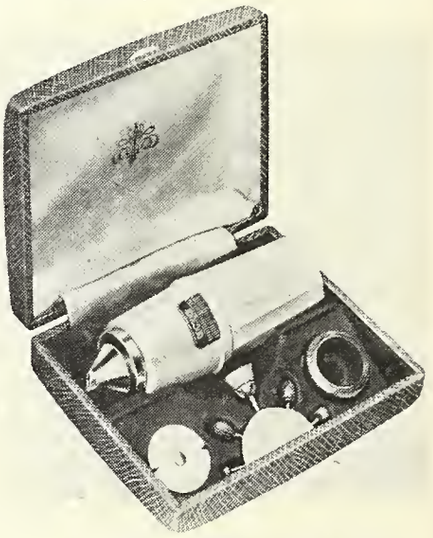
A New Anticholinergic.—A. H. Robins Co., Ltd., Foundry Lane, Horsham, Sussex, are marketing two new specialities, Robanul brand glycopyrrolate and Robanul-PH (Robanul with phenobarbitone). The former contains in each pink, scored tablet 1 mgm. of glycopyrrolate per tablet. Robanul-PH contains in each blue, scored tablet 1 mgm. of glycopyrrolate with 16·2 mgm. of phenobarbitone. Main indications for both products are in cases of duodenal ulcer. The compound is also indicated for gastrointestinal disorders associated with hypermotility and in other conditions in which anticholinergic action may be desired. Each is packed in containers of fifty and 500.

A New Salicylate Product.—Palaprin tablets, a new speciality of British Schering, Ltd., 225 Bath Road, Slough, Bucks, have been formulated to provide full salicylate action in rheumatic conditions. The product is claimed to present a new approach to salicylate therapy because it is hardly affected by the acid gastric juice but is released in the alkaline intestinal medium, thus "dramatically reducing the gastric irritation which so often precludes the prolonged use of aspirin even in the buffered or 'soluble' forms." Palaprin is indicated in rheumatic conditions, chronic arthritis, myalgias and other chronic painful conditions; in fact in all conditions in which an effective analgesic and anti-inflammatory agent is required. Each tablet contains 400 mgm. of polyoxoaluminium acetylsalicylate (equivalent to gr. 5 of acetylsalicylic acid). The pack is a container of thirty tablets.

"Revolution in Baby Care." — The Marathon Rhovyl one-way nappy manufactured by John Beales, Ltd., Peveril Street, Nottingham, is designed to prevent nappy rash and skin irritations. Worn under a conventional nappy, it is claimed to allow the baby's urine to go through to the nappy, but not to let it go back. "The nappy is soiled but baby stays dry and clean."

Baby's Portable Toilet.—The Kaymet Co., Kaymet Works, Sylvan Grove, London, S.E.15, have been appointed sole United Kingdom distributors of a baby's portable toilet of Continental manufacture. The commode is mounted in a strong supporting seat on rubber feet, and fitted with back-rest, armrests and safety strap. It is available in pink, blue, primrose or natural colour. The complete portable toilet includes disposable polythene bags with a securing ring, and a carrying case into which the toilet can be folded for carrying or storage when not in use. To customers not wanting the carrying case and disposable bags and ring the toilet is available separately.





GIFT KIT FOR LADIES: Unic Chaperon outfit in gift case by Unic Shavers, Ltd., 28 King Street, Manchester, 2 (see *C. & D.*, December 9, 1961, p. 628).

Hair Cream Aerosol. — A product which the manufacturers believe is the first hair cream to be packed in an aerosol dispenser is Captain, by W. B. Cartwright, Ltd., Rawdon, Leeds. All that is necessary is to remove the plastic cap and press the top gently down to dispense the cream into the hand. A showcard is available for displaying three packs of the product.

Foods for Fishes.—Kalium Products (Redditch), Ltd., Adelaide Street, Redditch, Worcs, announce a reformulated Kalora fish food containing among other ingredients, vitamin E, which is particularly necessary before and during the breeding season. New Kalora is claimed to give a balanced blend of vitamins. The company's other two foods for aquarium and pond fishes are ground shrimp and wheat-germ meal, both illustrated. Ground shrimp is available in drums of three sizes, wheat-germ meal in a drum, and Kalora fish food in drums of two sizes.



TRADE NOTES

A Pack of Fifty.—On January 8 Upjohn, Ltd., Fleming Way, Crawley, Sussex, are making available a 50-tablet pack of Monase tablets.

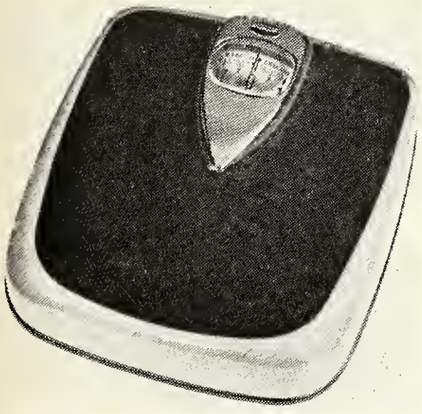
Sales 60 per cent. Up. — Benger Laboratories, Ltd., Holmes Chapel, Ches, claim that national Press advertising for Bengers food has increased sales by 60 per cent. in three years.

New Scottish Agents.—Vacco, Ltd., are being represented in Scotland by Donald Macaulay, Ltd., 22 King Street, Trongate, Glasgow, C.1 (telephone: Bell 1909) from January 1.

Higher Margins.—A. Wander, Ltd., 42 Upper Grosvenor Street, Grosvenor Square, London, W.1, are increasing the retailer's profit margin on their diabetic chocolate (milk, nut and plain).

A Pack of 250.—To meet increasing demand Smith Kline & French Laboratories, Ltd., Welwyn Garden City, Herts, are marketing Eskornade Spansule sustained-release capsules in a pack of 250.

Personal Scale.—The Waymaster personal (bathroom) scale 218/2, makers of which are Precision Engineering Co.



(Reading), Ltd., Meadow Road Works, Reading, Berks, has magnified readings that are also illuminated. The machine is supplied in seven different modern colour schemes and is guaranteed for two years. A model without illuminated dial is also available.

Label Change. — Scrubb's cloudy ammonia, which in December 1961 was acquired by Jeyes' Sanitary Compounds Co., Ltd., London, E.13, is now being distributed by the Jeyes sales organisation and includes the name of Jeyes on the label. The product is available in 8-oz. size in open-topped carton of 2 doz. and in 20-oz. size in open-topped carton of 1 doz.

Sale-or-return Facilities.—As a buffer against possible loss by retailers from a change in purchase tax rates in the April Budget, Dorothy Gray, Ltd., Raynes Park, London, S.W.20, are offering sale-or-return facilities until that date (or a previous announcement) to any stockist whose signature on an agreement form sent out has been received back by the company.

Higher Prices for Popular Aerosols.—After making steady reductions over a number of years on the retail selling price of their aerosol products, Cooper, McDougall & Robertson, Ltd., Berkhamsted, Herts, "regretfully" announce an increase in the price of their household aerosols in the popular size, which is now to cost twopence more than previously. The price of the large size throughout the range is unchanged.

A General Diagnostics Department.—William R. Warner & Co., Ltd., Eastleigh, Hants, whose associates in other parts of the world have for a long time



Mr. Milne (right of picture), manager of the general diagnostics department of William R. Warner, Ltd., demonstrates to new sales representatives how the products should be promoted to prospective buyers.

produced and distributed diagnostic reagents, have established at Eastleigh a general diagnostics department for serving clinical laboratories. A brochure giving details of products and their packs, and a price list of the reagents, are available from the company.

Stars Replace Tartan.—Four years after the launch of Scotties facial tissues, they have been given a new look, "pretty as well as practical." Stars in blue, pink or yellow on white replace the former tartan and give a modern impression of softness and



femininity. Greater prominence has been given to the name and other changes have been made to increase both elegance and shelf appeal. With the introduction of the new pack design, which for the time being is available only in England and Wales, comes an addition to the range—a pocket pack in the "first container constructed like a cigarette carton, which will withstand the rigours of pocket or handbag." The pack, a miniature of the standard pack, contains a dozen full-size Scotties in white only. Manufacturers are Bowater-Scott Corporation, Ltd., Bowater House, Knightsbridge, London, S.W.1.

Anniversary Offer. — To mark the twenty-fifth anniversary of the opening of their Great West Road, Isleworth, factory (on January 6, 1937), Gillette Safety Razor Co. are offering a standard three-piece razor and a blue Gillette "extra" five-blade dispenser,



packed in red styrene-moulded shell and film-wrapped (the No. 38 Set) at a "bargain" price. The offer to the trade in January comprises a compact merchandiser of 1 doz. No. 38 Sets for the price of eleven, each stand including four blue Gillette "extra" ten-blade dispensers and eight blue Gillette "extra" five-blade packets at normal prices. A winged card merchandiser, known as the "Gillette shaving bar," has been specially designed.



DISPLAYED TO SELL: A "showbox" accompanies each doz. "It's Magic" aerosol clothes spot-lifter sent out by the manufacturers, Cupal, Ltd., Blackburn, Lancs.

Bonus Offers

ALLEN & HANBURYS, LTD., Bethnal Green, London, E.2. Haliborange tablets. One free bottle per doz. in each of four bonus parcels (3 doz. bottles of 100; 8 doz. bottles of twenty-five and 1 doz. of 100; 4 doz. bottles of twenty-five and 2 doz. of 100; or 12 doz. bottles of twenty-five). Until February 9.

BENGER LABORATORIES, LTD., Holmes Chapel, Ches. Bengers food. 17–25 per cent. display bonus on a range of minimum orders starting at six tins.

LUSTY'S NATURAL PRODUCTS CO., LTD., London Road, Westcliff-on-Sea, Essex. Lusty's Rutilene tablets (for hypertension). 15 per cent. on orders placed during January.

SPRATT'S PATENT, LTD., 41 Bow Road, London, E.3,. Spratt's meat (both sizes). Special bonus of 1s. in addition to quantity discount already available. Until January 30.

VACCO, LTD., Grosvenor Gardens House, London, S.W.1, Vacco de luxe vacuum flasks. Bonus already announced (see *C. & D.*, December 16, 1961, p. 654) is additional to 5 per cent. bonus for cash.

INFORMATION WANTED

The Editor would appreciate information about:

Dynexan medicated tooth ointment
Translep colostomy sets
Alexophyl-M cream
Keenans toothpicks

PHOTOGRAPHIC NOTES

Slide Frame Distribution Change. — Neville Brown & Co., Ltd., 93 New Cavendish Street, London, W.1, are now sole distributors of Wiko transparency holders. Special terms are offered on orders for 200 or more boxes.

After-sales Servicing.—Pullin Optical Co., Ltd., Ellis House, Aintree Road, Perivale, Greenford, Middlesex, now offer full after-sales servicing facilities for Linhof, Paximat, Olympus, Nizo, and Susis photographic apparatus at the above address.

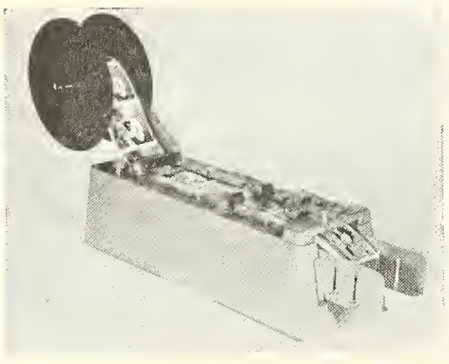
New Releases of Home Movies. — The G.B. Film Library, 1 Aintree Road, Perivale, Middlesex, have extended their range of Movie-pak (16-mm.) and Movie-pakette (8-mm.) films and are packaging them in new colourful boxes.

"Colour Outdoors" Booklet.—"Let's Take Colour Slides Outdoors" is the title of an illustrated 64-page book by Kodak, Ltd., Kingsway, London, W.C.2, designed "to help explore fresh avenues in outdoor colour photography." Price is 4s. 6d. per copy.

Do-it-yourself Kits. — Johnsons of Hendon, Ltd., Hendon Way, London, N.W.4, offer with each of their "do-it-yourself" home processing outfits full instructions for use and a copy of the 104-page booklet "Home Photography." The series consists of printing outfits nos. 1 and 2, developing outfit no. 3 and a composite outfit no. 4.

Display Units.—Liddle, Keen & Co., Ltd., Norland Yard, London, W.11, offer to the retailer interested in showing his photographic goods as a self-contained display a series of Norland counters and units with optional strip-lighting or fluorescent fittings. Every unit, say the makers, is designed to combine attractive presentation with easy access to goods.

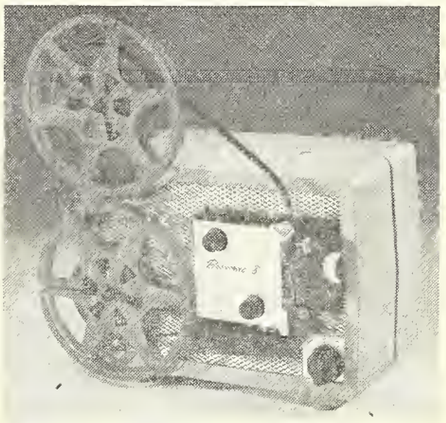
Stolen Equipment.—Rank Precision Industries, Ltd., 37 Mortimer Street, London, W.1, report the following goods stolen from dealers' premises: Autoset III "zoom" camera, serial no. L3002; Autoset "zoom" camera, serial no. L591.—The following cine cameras have been stolen from Gravesend Co-operative Society, Ltd., 3 Harmer Street, Gravesend, Kent: Agfa Movex 88 (body no. VO.7954); Jelco "zoom" (body 10518, lens 102316).



Electronically-controlled automatic print cutter by Kodak, Ltd., Kingsway, London, W.C.2. Used in conjunction with a Kodak printer and print marker, the cutter has an output of 120 (3½ x 3½-in.) or 90 (3½ x 5-in.) prints a minute. It accommodates up to 1,000 ft. of single-weight paper (or 500 ft. double-weight). Operation is through a 200-250 v., 50-cycle A.C. supply.

Information Council Booklet.—The Photographic Information Council, Ltd., Wardrobe House, Wardrobe Place, London, E.C.4, have issued a new booklet to help schoolchildren make better use of their cameras. Titled "Any Time is Camera Time," the 36-page booklet suggests picture opportunitics during each month of the year. It is well illustrated; with two-colour cover, price 3s.

Self Threading 8-mm. Projector. — The Brownie 8 model A15 is a new 8-mm. projector that features completely automatic film threading right on to the take-up reel. The makers, Kodak, Ltd., Kingsway, London, W.C.2, claim that the threading operation presents no problems or delays for the operator, "who only needs to switch on the motor, insert the end of the film from the loaded reel into the

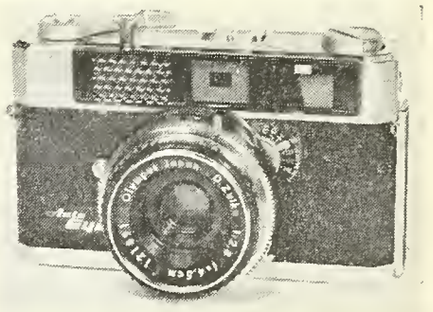


threading device and the film is automatically threaded right on to the take up reel." Another feature of this model is that it may be elevated at the turn of a knob, which tilts the lamp to lens system. The projector is equipped with a fan-cooled 150-watt lamp, Ektanar lens f/1·6, power rewind and has a 200-ft. reel capacity.

New Matt White Screens.—The cine and photographic division of Rank Precision Industries, Ltd., 37 Mortimer Street, London, W.1, announces that its range of Da-Lite "flyer" screens are now available with matt white surfaces in addition to beaded surfaces. They are in three sizes: 40 x 30 in., 40 x 40 in. and 50 x 50 in. They are precision-constructed for instant erection and finished in metallic colours.

Specialist Colourprint Service.—Allcolor Services (British Alfa Films, Ltd.), 148 Southampton Row, London, W.C.1, wish to point out that they offer specialist colour processing facilities to customers requiring prints of professional quality or satisfactory prints from poor negatives. Prints are individually tested for colour balance three times before being passed. Consequently the charge for Enprints, which are produced by Messrs. Allcolour under the same conditions as specialist prints, is substantially higher than that quoted by the majority of D. and P. laboratories.

35-mm. Automation.—The Olympus "auto-eye" camera is a 35-mm. model from Japan, distributed in the United Kingdom by The Pullin Optical Co., Ltd., Ellis House, Aintree Road, Perivale, Middlesex. It has a four-element Zuiko f/2·8 lens (45 mm.), ten-speed shutter (1/500—1 sec.) and luminous frame-finder corrected for parallex error. The exposure meter is coupled to



the iris. An unusual feature is the preview press-button, which enables the aperture to be checked before exposing the film. When the button is pressed the aperture number shows in the view finder so that, if required, the speed setting may be altered without the eye being taken off the subject. Rotation of the speed ring automatically readjusts the aperture. The camera is marketed complete with leather case. It is at present in short supply.

A High Definition Developer. — Hyfin, a new high definition developer by Ilford, Ltd., Ilford, Essex, should be of particular interest to miniature camera users. The makers claim that it produces very sharp images with fine-grain 35-mm. film by making use of an "enhanced edge" effect. By increasing the contrast of edges and fine detail without affecting overall contrast, Hyfin produces greater sharpness than conventional negative developers. At the same time it has the effect of increasing film speed by approximately one stop. Hyfin is supplied in powder form and is packed in cartons containing five separate sachets, each to make 600 mils of working strength solution.

Ten-second Range Extended.—Two new Polaroid Land cameras are available from Johnsons of Hendon, Ltd., Hendon Way, London, N.W.4. Featuring the ten-second processing system of earlier models (see *C. & D.*, March 25, 1961, p. 298), the Polaroid J66 takes 3¼ x 4¼ in. pictures and the smaller J33 produces a 2¼ x 3½ in. print. Both models take maximum advantage of the fast Polaroid 3000 speed film by using a normal operating aperture of f/32 to provide a large depth of field. Subjects between 4½ ft. and infinity are sharply defined, and by using the close-up setting pictures may be taken from a distance of 30 in. An electric eye automatically controls exposure by calling for shutter speeds from 1/1000th sec. in brightest sunshine to 1/15th sec. in dim light. Another feature of the new cameras is a "low light level" indicator which signals when flash is needed. This flash is produced by a tiny built-in flash-gun.

The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

TELEPHONE CENTRAL 6565

Late But Worth Waiting For

ALIBIS in plenty could be found for the lateness of arrival of *The Chemist and Druggist Diary and Year-book* to many subscribers. We might blame it on the year-end weather conditions or the postal workers' "work-to-rule" procedures. In reality, candour compels us to confess that there would have been a general late arrival even without those unforeseen eventualities, and we hasten to express our regrets to subscribers and to forestall further agitated telephone calls demanding an explanation.

To explain, unfortunately, is more difficult than to apologise, for the cause was not one major setback but a series of lesser hold-ups at various stages of the printing and bookbinding operations. Over the timing of those procedures we were not, as editors and publishers, in detailed control, though we hope that action taken on this occasion will prevent similar delays in future years.

As to the literary contents of the 1962 *Year-book*, first mention must go to a five-page Table of Antihistamines, which provides in a most readily available form the information that pharmacists require about that important class of therapeutic substances—their official and trade names, manufacturers, presentations, and descriptive notes signposting the differences between them.

"Greater Profit at Less Risk," an article first published in the *C. & D.*, has been given the reference-book status we think it deserves. Council statements issued to members of the Pharmaceutical Society during the twelve months since the 1961 *Year-book* went to press have been given. Space was not available to reprint the full codified series of statements published last year, and it is suggested, therefore, that the 1961 edition should be retained for reference when required.

Another useful reference feature of the new edition is the summarised memorandum, jointly issued by the Association of the British Pharmaceutical Industry, Proprietary Association of Great Britain and Association of Public Analysts, on the Labelling of Medicinal Substances. The statement makes nine recommendations and gives definitions of over forty types of pharmaceutical presentation of medicaments.

To the list of special serum products centres is now added a list of yellow-fever vaccine centres that will enable the pharmacist to give guidance to his customers, in these days of greater foreign travel, on how they may set about complying with one of the essential prerequisites for admission to many foreign countries.

Also included for the first time is a table of preparations subject to Part II of the Therapeutic Substances Act, 1956.

For the rest the directory features and the legal, technical, educational and salaries information, have been given their annual revision, so that we may vouch for their accuracy *at the time they went to press*. It is necessary to underline that proviso because the Treasury, not for the first time, has in the months since copy was put in the hands of the printers seen fit to render some of the purchase-tax information incomplete before the *Diary* was even published. For those subscribers who would like to have ready access to the details of the changes, our suggestion is that they should cut out p. 648 from the *C. & D.*, December 16, 1961, and insert the page between p. 298 and p. 299 of the *Year-book*.

The Trade Directory and Buyers' Guide sections continue to be unrivalled as sources of information on suppliers of drugs, chemicals and sundries and on the makers of trade-named pharmaceutical specialities. No such list, comprehensive though it is, can find the answer in every situation, so it is timely to give a reminder that the Buyers' Guide is supplemented by the Information Department of THE CHEMIST AND DRUGGIST, which is at the disposal of subscribers either through the post or by telephone (Central 6565). It is assumed that the *Year-book* advertisement pages, themselves a mine of information as well as of attractive and colourful presentation, will first have been surveyed by the inquirer.

If it is not in mortals to command any more success in 1962 than in any other year, at least we take satisfaction in having provided some of the wherewithal upon which the successful running of a pharmaceutical business, or even of a hospital pharmaceutical department, depends, and we wish every reader the success he or she will deserve from using fully the facilities provided.

Overseas Trade in November 1961

AT £4·1 millions the value of drugs, medicines and medicinal preparations exported from the United Kingdom in November 1961 differed little from values for other recent months. Against the comparable period of 1960 the total for the eleven months was, at £44·6 millions, 10 per cent. higher, though in making the comparison one has to make allowance for the fact that the 1960 figures were distorted by a long dock strike.

Shipments to Australia continued their downward trend in November and at £321,000 (against £415,000

IMPORTS	VALUE
	£
Vitamins	41,884
Antibiotics	135,763
Alkaloids	96,555
Proprietary medicines	77,343
Unclassified medicines	102,763
Borax	91,810
Iodine	55,033
Menthol	46,198
Essential oils:	
Bergamot	12,056
Citronella	10,806
Clove	17,282
Geranium	27,819
Lavender	49,124
Lemon	32,147
Orange	11,949
Peppermint	106,870
Unclassified	275,595

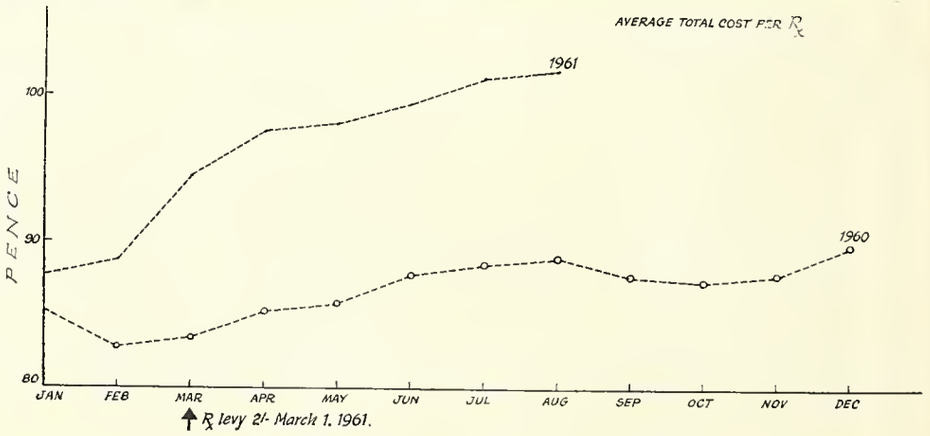
EXPORTS	VALUE
	£
Drugs, medicines, medicinal preparations (total)	4,153,212
Vitamins	234,266
Penicillin salts	76,538
Penicillin injections	76,550
Penicillin tablets, ointments	112,796
Antibiotics other than penicillin	510,224
Hormones	160,873
Alkaloids	152,627
Aspirin	163,730
Antihistamines	42,450
Antipaludics	91,432
Barbiturates	67,666
Anæsthetics (excluding ether, chloroform and ethyl chloride)	134,552
Ointments and liniments	133,878
Insulin	27,818
Sulphonamides, prepared	104,976
Proprietary medicines	1,058,063
Unclassified medicines	964,595
Glycerin	34,357
Acetone	38,398
Citric acid	49,210
Sulphonamides, unprepared	59,935
Perfumery and toilet preparations:	
Lipstick, face powder, etc.	264,493
Dentifrices	154,773
Toilet soaps	254,957
Synthetic detergents	526,016

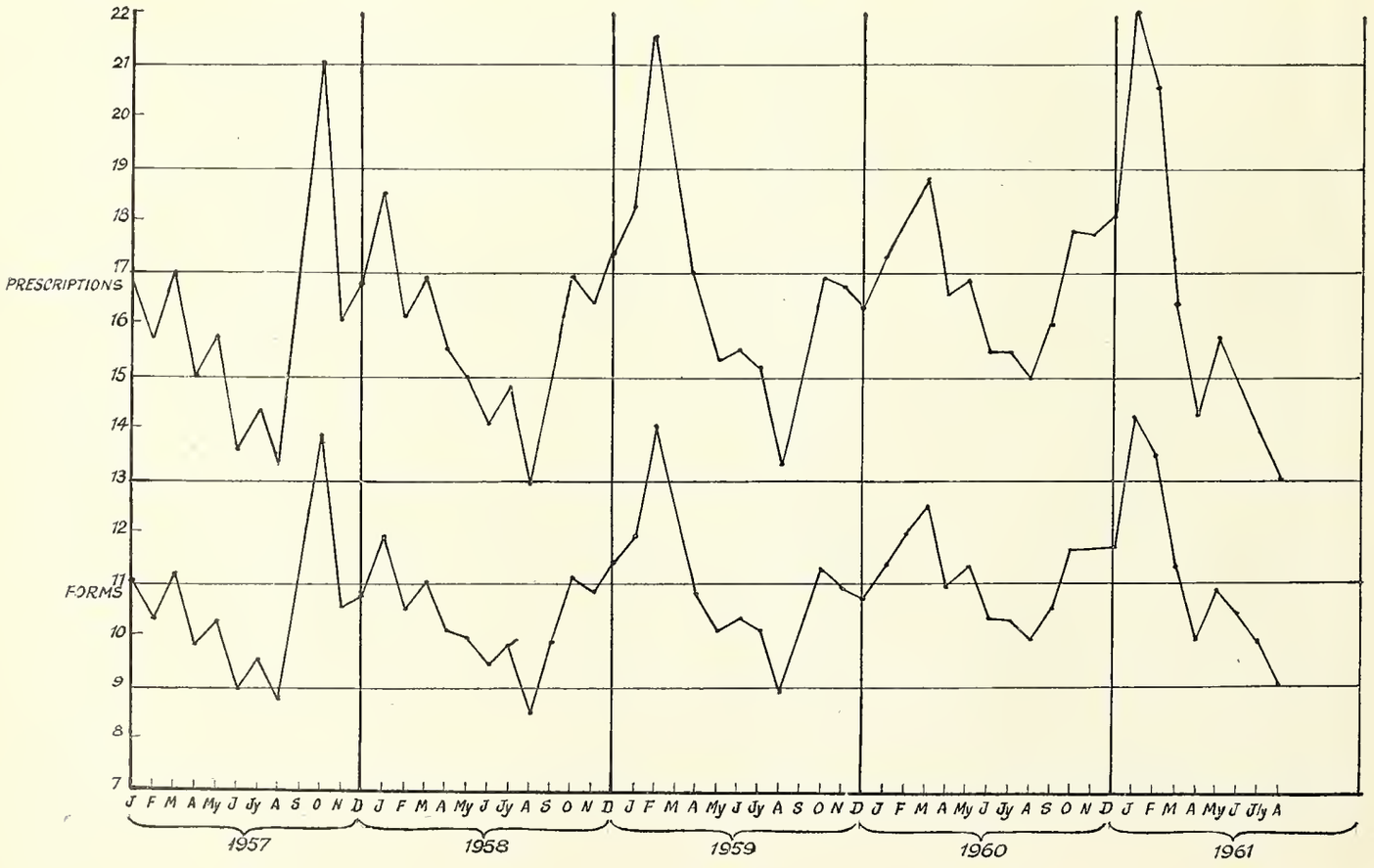
in November 1960) were about £20,000 below the value taken by Nigeria. The United States, with purchases valued at £235,000, was the third largest customer, followed by Canada (£214,000) and the Irish Republic (£205,000). Exports to France, at £149,000, showed a remarkable advance during the month. Apart from Belgium, however, purchases by the remaining Common Market countries did not reach the values of the previous November. The Scandinavian markets showed useful gains.

Imports of prepared medicines were valued at £454,000 of which £136,000 was accounted for by antibiotics.

NATIONAL HEALTH SERVICE PRESCRIPTIONS

The increasing average cost per National Health Service prescription is emphasised by the graph on the right. The other, below, shows the number of forms (in millions) received and prescriptions dispensed by contractors during each month for the years indicated.





HOSPITAL PHARMACY FORUM

LONG AND TEDIOUS ARITHMETIC

AT the beginning of a new year it is a normal reaction to look back over the one that has gone and to try to discern the trend of events for the future. It would require strongly tinted spectacles to discern any rosy traits in the field of hospital pharmacy in 1961. The year has been fallow, and we must hope for much better things in 1962.

The most depressing feature is the continued failure of recruitment, and especially the recruitment of men. It might have been hoped that, with the cessation of the call-up for military service, some of the younger pharmacists might have turned to the hospital service. Probably a few have done so, but there is still insufficient evidence of recruitment to ease the perpetual difficulty of finding staff. The locum is still a permanent feature of too many hospitals. In the larger hospitals the rapid rate of change of personnel is depressing and frustrating. Forward planning is impossible, and many routine tasks slip behind. As conditions in the pharmacy deteriorate, staff become more difficult to retain, and so the vicious circle is established. It is thoroughly distasteful to have to return again and again to the main basic cause of all this, but it must be done. Salary scales have to be made sufficiently attractive to ensure that hospital pharmacy has enough entrants of suitable quality to maintain and improve the service. It must be to this as its prime task that the Guild of Public Pharmacists must turn its energies. A claim has been in the hands of the Ministry officials since early July 1961, and it is a complete travesty of the Whitley system that a ministerial procrastination should have for so long delayed a settlement.

A Meeting at Last

It appears that now, at last, a meeting is to be held, and it is to be hoped that the staff side will press its claim strongly. The entirely unsatisfactory arrangement, unilaterally fixed by the Ministry, for reorganising group responsibility, must also be changed so as to remove the sense of injustice under which a number of pharmacists continue to work. They may be few in number, but the effect on morale of a long continued injustice may well have repercussions disproportionate to the number of persons directly involved. The pharmacists in mental hospitals have for long pleaded that theirs is the forgotten corner, even within hospital pharmacy. Those with experience of Whitley Council discussions know that that is far from being the case, for much thought and effort have been devoted to an examination of the case of the mental hospitals. The discontent voiced by some of them is again evidence of a sense of injustice and frustration, which should be rectified as quickly as possible. The evidence from several inquiries made by the staff side organisations is that the present points ratio of mental hospitals to general hospitals is not a correct measure of the responsibility and pressure of work in them. If that fact alone could be established, and a satisfactory ratio agreed with the management side, the long and tedious exercises in arithmetic of the points revision committee would not have been in vain.

It will only be when the service is able to recruit a permanent staff of reasonably satisfied pharmacists who will make their career in the hospitals that any forward steps can be made to improve the service. A number of regional hospital boards have carried out surveys of the pharmaceutical organisation within their regions and in some cases considerable improvements have been made by building new or modifying old pharmacies or by re-equipping them to deal with modern drugs and techniques. The Research and Planning Committee of the Guild has provided valuable guidance in some of those situations. There is, however, little evidence of new radical thinking about the pharmaceutical services. Such co-ordination as has been instituted is at group level only, and even there, in far too many instances, the H.M.C.'s have boggled at setting up a really effective group service for fear of rival claims to precedence as between hospitals within the group. It may well be that the regional or subregional level is a more appropriate one for bringing about improvements. It would be interesting to see, for example, proposals for a regional or subregional laboratory for bulk manufactures, which would incorporate some analytical control, at present largely lacking.

Such a laboratory could be closely associated with the regional organisation for buying medical supplies as well as for maintaining its own products. In that way a service could be provided which is beyond the scope of the small individual hospital, or even of the group in present circumstances. Pharmacists have given considerable assistance to the Minister through the various committees at both regional and national level and it may well be that thought should be given to the service at national level along the lines suggested. A survey of man-power in pharmacy has been provided partly by the Pharmaceutical Society and the Ministry. The deployment of man-power cannot be divorced from the considerations outlined above, and the present may therefore be an appropriate time to look again at the service as a whole. 1962 may well be a critical year in that sense.

MEDICAL ABSTRACTS

REACTIONS TO QUININE AND LIGNOCAINE

Two reports were published recently of sensitivity reactions to drugs in common medical use. Calnan and Caron (*Brit. med. J.*, 1961. **II.** 1750) report five patients shown in patch tests to have allergic contact sensitivity to quinine. Furthermore, three had skin eruptions after systemic administration of the substance and one reacted after drinking a proprietary brand of "bitter lemon." Quinine, even in high concentration, normally has no irritant effect on the skin. Eruptions ascribed to systemic administration of it are thought to be allergic in nature because they are dissimilar to the effects of overdosage (cinchonism), and may in fact be provoked by extremely small doses; they also occur only, and always, on re-exposure to the drug. "Bitter lemon" and "tonic water" contain about 0·003 per cent. of quinine. Some scalp lotions may contain about 2 per cent., and Rendell's contraceptive pessary contains 3·5 per cent. Another report, by Noble and Pierce (*Lancet*, 1961. **II.** 1436), describes a rare case of allergy to lignocaine. The patient had experienced gross swelling of the mouth and oropharynx a few hours after receiving an injection of lignocaine hydrochloride for local dental anæsthesia. Subsequent intradermal skin testing with different anæsthetics showed the patient sensitive to all but nupercaine. Control tests with some other constituents of dental lignocaine solutions produced no reaction.

A PHARMACIST'S ANTHOLOGY

LET THEM BE GIVEN EVERY HOUR

From "*Amelia*" by Henry Fielding.

BUT before the second dealer could be brought, the first returned with the apothecary attending him as before. He again surveyed and handled the sick; and when Amelia begged him to tell her if there was any hopes, he shook his head, and said, "To be sure, madam, miss is in a very dangerous condition, and there is no time to lose. If the blisters which I shall now order her, should not relieve her, I fear we can do no more."—"Would you not please, sir," says the apothecary, "to have the powders and the draught repeated?" "How often were they ordered?" cries the doctor. "Only tertia quaq. horâ," says the apothecary. "Let them be given every hour by all means," cries the doctor.

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable from the Editor. Notes on the products are given on p. 20.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 6, 1962

ACDRILE tablets

MANUFACTURER: Berk Pharmaceuticals, Ltd., 8 Baker Street, London, W.1.

DESCRIPTION: Yellow enteric coated tablets, each containing 100 mgm. of methylcysteine. Respiratory tract decongestant.

INDICATIONS: Chronic bronchitis, rhinopharyngitis, bronchectasia, tracheitis, muco-purulent rhinitis, chronic post-nasal catarrh, chronic laryngitis, chronic otorrhœa.

DOSAGE: Adults, four to six tablets daily. Children (over five years), two to three tablets daily throughout the winter.

NOTES: Store in a dry place.

HOW SUPPLIED: In bottle of twenty-eight.

FIRST ISSUED: October 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 6, 1962

ASILONE tablets

MANUFACTURER: Berk Pharmaceuticals, Ltd., 8 Baker Street, London, W.1.

DESCRIPTION: Square white tablets (embossed ASILONE), each containing 0·25 gm. of polymethylsiloxane, 0·5 gm. of dried aluminium hydroxide gel and 0·5 gm. of sorbitol.

INDICATIONS: Meteorism; abnormal distension; flatulence; heartburn; hypo- and hyper-acidity; dyspepsia of pregnancy; hiatus hernia; gastro-œsophageal reflux; medicamental gastritis.

DOSAGE: Adults, One to six tablets daily as required. Children (over three years), up to two tablets daily.

NOTES: Store in a dry place.

HOW SUPPLIED: In box of twelve.

FIRST ISSUED: October 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 6, 1962

Influenza virus vaccine (Duphar)

MANUFACTURER: N.V. Philips-Duphar, Amsterdam, Holland. DISTRIBUTOR: The Crookes Laboratories, Ltd., Park Royal, London, N.W.10.

DESCRIPTION: Sterile vaccine suspension containing inactivated virus A_2/305 (Japan, 1957) and B/33 (Johannesburg, 1958), having a potency of 12,000 hæmagglutinating units per mil.

INDICATIONS: For protection against influenza.

CONTRAINDICATIONS: Persons allergic to egg and chicken protein.

DOSAGE: 1 mil by deep subcutaneous injection during late autumn. For "special risk" patients a booster dose 6 months later is recommended.

NOTES: Retains its potency for 18 months if stored in the dark at 2–10° C.

HOW SUPPLIED: In ampoules of 1 mil (single or box of six) and multidose vial of 10 mils.

FIRST ISSUED: September 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 6, 1962

SOLVISAT ointment

MANUFACTURER: Leo Pharmaceutical Products, Denmark. DISTRIBUTOR: Leo Laboratories, Ltd., 15 Clipstone Street, London, W.1.

DESCRIPTION: Ointment which, when prepared from its two components, contains 1 per cent. of hydrocortisone xanthogenate (as ethanolamine salt) and 0·5 per cent. each of bacitracin and neomycin, in a neutral base.

INDICATIONS: Eczema, neurodermatitis, ano-genital pruritus.

CONTRAINDICATIONS: Ophthalmic lesions.

METHOD OF USE: The components are expressed on to the skin from a double-barrelled tube and mixed to give the active ethanolamine salt. Use sparingly as directed.

HOW SUPPLIED: In double-barrelled tube of 10 mils.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

FIRST ISSUED: November 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 6, 1962

EQUIVERT tablets

MANUFACTURER: Pfizer, Ltd., Sandwich, Kent.

DESCRIPTION: Yellow scored tablets, each containing 25 mgm. of buclizine hydrochloride and 25 mgm. of nicotinic acid.

INDICATIONS: Vertigo, whether associated with ageing, arteriosclerosis, Ménière's syndrome, labyrinthitis, streptomycin therapy or related conditions.

DOSAGE: One tablet three times a day before meals.

SIDE-EFFECTS: Some drowsiness may occur.

HOW SUPPLIED: In bottle of 100.

SUPPLY RESTRICTIONS: P.I, S.7.

FIRST ISSUED: August 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 6, 1962

METILAR tablets

MANUFACTURER: Imperial Chemical Industries, Ltd., Pharmaceuticals division, Fulshaw Hall, Wilmslow, Ches.

DESCRIPTION: Scored white tablets, each containing 1 or 2 mgm. of paramethasone acetate.

INDICATIONS: For systemic adrenocortical steroid therapy.

CONTRAINDICATIONS: As for other corticosteroids.

DOSAGE: Rheumatoid arthritis and chronic bronchial asthma: suppressive daily dose 6–8 mgm., maintenance daily dose 1·5–4 mgm. For other conditions suppressive daily dose 6–12 mgm., maintenance dose 1–6 mgm. according to response and condition.

HOW SUPPLIED: In containers of twenty-five, 100 and 500.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

FIRST ISSUED: October 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 6, 1962

SYNALAR cream, ointment and lotion

MANUFACTURER: Imperial Chemical Industries, Ltd., Pharmaceuticals division, Fulshaw Hall, Wilmslow, Ches.

DESCRIPTION: Topical preparations containing 0·025 per cent. of fluocinolone acetonide.

INDICATIONS: Local inflammatory, pruritic and allergic conditions of the skin and mucosa.

METHOD OF USE: Apply sparingly to the affected area two or three times a day. Synalar *cream* is specially intended for use on very inflamed and weeping surfaces, also for the flexures of the body and limbs. The *lotion* is preferable for large areas, the scalp and weeping surfaces. The *ointment* is suitable for less inflamed and drier surfaces, particularly if crusting is present.

HOW SUPPLIED: *Cream* and *ointment* in tubes of 5 and 15 gm. *Lotion* in 20-ml. polythene squeeze bottle.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

FIRST ISSUED: October 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 6, 1962

YOMESAN tablets

MANUFACTURER: Farbenfabriken Bayer, A.G., Germany. DISTRIBUTOR: F.B.A. Pharmaceuticals, Ltd., 37 Bedford Row, London, W.C.1.

DESCRIPTION: Off-white scored tablets, each containing 0·5 gm. of 5-chloro-N-(2-chloro-4-nitrophenyl) salicylamide, with added vanilla flavour. Anthelmintic.

INDICATIONS: Tapeworm infestation—including *Diphyllobothrium latum* (fish tapeworm); *Tænia saginata* (beef tapeworm); *Tænia solium* (pork tapeworm); *Hymenolepis nana* (dwarf tapeworm).

DOSAGE: Two tablets to be thoroughly chewed and washed down with water, followed by another two tablets one hour later. To be taken on an empty stomach.

HOW SUPPLIED: In strip foil pack of four.

FIRST ISSUED: November 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 6, 1962

EQUAGESIC tablets

MANUFACTURER: John Wyeth & Brother, Ltd., Clifton House, Euston Road, London, N.W.1.

DESCRIPTION: Two-layered tablets (top layer white and bottom yellow), each containing 75 mgm. of ethoheptazine citrate, 150 mgm. of meprobamate, 250 mgm. of acetylsalicylic acid and 75 mgm. of calcium carbonate.

INDICATIONS: Tension headache; painful musculo-skeletal disorders in which mental tension and muscle spasm add to distress (e.g. low back pain, bursitis, arthritis, traumatic pain and spasm associated with sprains and fractures); other painful conditions complicated by apprehension.

DOSAGE: Two tablets three or four times a day.

HOW SUPPLIED: In bottles of ten and 100.

SUPPLY RESTRICTIONS: P.I, S.4B.

FIRST ISSUED: November 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 6, 1962

RECTALAD miniature disposable enema

MANUFACTURER: Denver Laboratories, Ltd., 12 Carlisle Road, London, N.W.9.

DESCRIPTION: Enema of glycerin, soft soap and dioctyl potassium sulphosuccinate in a disposable plastic pack of 2 or 5 mils.

INDICATIONS: Constipation.

CONTRAINDICATIONS: As for other enemas, e.g. ano-rectal fistulas, ulcerative conditions of the ano-rectum and severe bleeding piles.

DOSAGE: Adults, the contents of one 5-mil pack; Children (under 12 years), 2 mils.

HOW SUPPLIED: In boxes of six 2- or 5-mil packs.

FIRST ISSUED: April 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 6, 1962

STROMBA tablets

MANUFACTURER: Bayer Products, division of Winthrop Group, Ltd., Surbiton, Surrey.

DESCRIPTION: Yellow uncoated tablets (inscribed STROMBA), each containing 5 mgm. of stanazolol. Anabolic agent.

INDICATIONS: Debilitating diseases; malnutrition; post-operatively; kidney disorders and associated conditions. During corticosteroid therapy.

CONTRAINDICATIONS: Cancer of the prostate; pregnancy.

DOSAGE: Adults, one tablet daily. Children (6–10 yrs.), half to one daily; (under 6 yrs.), half tablet daily. To be taken with food.

PRECAUTIONS: Use with care in impaired cardiac or renal function owing to the possibility of sodium œdema.

HOW SUPPLIED: In containers of ten, fifty and 200.

SUPPLY RESTRICTIONS: P.I, S.4B.

FIRST ISSUED: November 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 6, 1962

SULPH-ILOSONE tablets and suspension

MANUFACTURER: Eli Lilly & Co., Basingstoke, Hants.

DESCRIPTION: Yellow scored film-coated *tablets*, each containing 125 mgm. of erythromycin estolate and 500 mgm. of sulphadimidine. Yellow granules for *suspension* containing those quantities per teaspoonful (5 mils).

INDICATIONS: Refractory bacterial infections.

DOSAGE: *Tablets:* Adults, two tablets every 6 hours. *Suspension:* Children (under 6 mths.), ½ teaspoonful; (6 mths.–3 yrs.), 1 teaspoonful; (over 3 yrs.), 2 teaspoonfuls; to be given every 6 hours.

NOTES: The suspension retains its potency for 14 days at room temperature.

HOW SUPPLIED: Tablets, in containers of twelve and 100. *Suspension*, as granules to make 60 mils.

SUPPLY RESTRICTIONS: P.I, S.4B, Therapeutic Substances Act.

FIRST ISSUED: November 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 6, 1962

GLYMAXIL liquid

MANUFACTURER: Beecham Research Laboratories, Ltd., Great West Road, Brentford, Middlesex.

DESCRIPTION: Clear green liquid containing 1·6 gm. of sodium gluconatodihydroxo-aluminate III per teaspoonful (4 mils).

INDICATIONS: Dyspepsia; pain of peptic ulcer; heartburn of pregnancy; oesophagitis; hiatus hernia.

DOSAGE: 1–2 teaspoonfuls when required.

HOW SUPPLIED: In screw-cap bottle of 4 fl. oz.

FIRST ISSUED: November 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 6, 1962

HALDRATE tablets

MANUFACTURER: Eli Lilly & Co., Ltd., Basingstoke, Hants.

DESCRIPTION: Tablets (embossed with Lilly script) each containing 1 mgm. (yellow) or 2 mgm. (orange) of paramethasone acetate.

INDICATIONS: Conditions normally responsive to corticosteroid treatment.

CONTRAINDICATIONS: As for other corticosteroids.

DOSAGE: According to the condition under treatment. 2 mgm. of Haldrate has the approximate potency of 5 mgm. of prednisolone.

HOW SUPPLIED: In bottles of thirty and 100.

SUPPLY RESTRICTIONS: Therapeutic Substances Act.

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THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 6, 1962

NIROLEX linctus

MANUFACTURER: Boots Pure Drug Co., Ltd., Station Street, Nottingham.

DESCRIPTION: Red linctus containing 15 mgm. of ephedrine sulphate, 10 mgm. of mepyramine maleate and 50 mgm. of guaiphenesin per teaspoonful (1 fl. drachm).

INDICATIONS: For symptomatic relief in bronchitis, bronchial asthma and allied conditions.

DOSAGE: Adults, one teaspoonful every 4 hours if necessary. Children (over 7 years), half the adult dosage.

HOW SUPPLIED: In bottles of 4 and 40 fl. oz.

SUPPLY RESTRICTIONS: P.I, S.7.

FIRST ISSUED: November 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 6, 1962

TIGLYSSIN tablets

MANUFACTURER: Duncan, Flockhart & Co., Ltd., Wheatfield Road, Edinburgh, 11.

DESCRIPTION: Tablets, each containing 250 mgm. of tigloidine hydrobromide.

INDICATIONS: For symptomatic relief of spasticity and spasms due to organic upper motor neurone diseases.

DOSAGE: 1–2 gm. daily in divided doses, with meals. Up to 3 weeks may be required before full effect is apparent.

HOW SUPPLIED: In container of 100.

SUPPLY RESTRICTIONS: P.I, S.1.

FIRST ISSUED: November 1961.

THE CHEMIST AND DRUGGIST Guide to New Medicaments, January 6, 1962

ZARONTIN syrup

MANUFACTURER: Parke, Davis & Co., Staines Road, Hounslow, Middlesex.

DESCRIPTION: Red-orange syrup containing 250 mgm. of ethosuximide per teaspoonful (5 mils).

INDICATIONS: *Petit mal* epilepsy. May be given with other anticonvulsants where attacks involve additional epileptic states (e.g. grand mal).

DOSAGE: Adults and Children (over 6 yrs.), 2 teaspoonfuls daily; children (under 6 yrs.), 1 teaspoonful daily. Dosage may be adjusted according to response.

HOW SUPPLIED: In bottles of 240 mils and 2 litres.

FIRST ISSUED: December 1961.

A History of the British Pharmaceutical Conference—5: THE YEARS 1881-84

E. H. SHIELDS

LADENBURG'S researches on the mydriatic alkaloids found echoes in papers that followed, one of them coming from Mr. E. Merck, Darmstadt, by special invitation from Mr. Reynolds. The term "hyoscine," given by Ladenburg to his newest alkaloid, was considered to be superfluous, "as there is no doubt that it is identical with tropine." Mr. Gerrard presented an improved process for the extraction of atropine and reported on the alkaloidal value of cultivated and wild belladonna plants. He preferred to use ammonia rather than fixed alkalis for the liberation of the alkaloid, and found wild plants to be richer than cultivated varieties, the leaves to be richer than the roots. Mr. Carteighe suggested that it would be safer to use the phrase "atropine or total alkaloids," and reminded members that such researches were incidental to a busy life, whereas Professor Ladenburg had devoted himself entirely to that one subject. Mr. Gerrard modestly confessed that he was utterly unable to state whether what was being dispensed as atropine was atropine, hyoscyamine, duboisine or daturine or atropine *plus* something else. Mr. Benger criticised the B.P. test for pepsin and made several suggestions that were eventually incorporated in the 1885 edition. At Dundee, fourteen years earlier, Mr. Groves had tried to interest members in his "glycelaeum" as a non-fatty base for ointments. It was prepared from finely ground almond cake and glycerin. He now preferred to use bitter almond cake as being more readily available, and to dilute the glycerin with half its volume of water. Apparently the idea still did not arouse much interest. Mr. Siebold (editor of the Year-book) and a colleague, Mr. T. Bradbury, Hyde, successfully disproved a recent report that Indian hemp contained nicotine, and speculated on the possibility of another "alkaloid" to be examined more closely in due course. They were not so successful in convincing everybody that they had, in fact, isolated a true alkaloid in their final residue of about 2 grains. A favourite tranquilliser of the day was hydrobromic acid, but its pharmaceutical reputation was marred by the fact that at least three different strengths were current, and the dispenser was too often left to guess the intention of the prescriber. Mr. E. M. Holmes was in favour of widening the official description of cinchona bark to include cultivated varieties from Java, India and Ceylon, whilst Mr. W. de Neufville maintained that South American barks still possessed distinct advantages. In an optimistic aside Mr. Holmes suggested that the adoption of the metric system in pharmacy was merely a matter of time. A paper by Mr. Barnard Proctor on pharmaceutical remuneration could be credited to the Conference; it had been submitted but it was rejected as being unsuitable for discussion. It found a home in the hospitable columns of the *C. & D.*, and its general tone may be inferred from a concluding quip that the greatest benefactor to pharmacy would be he who could make one pharmacist grow where two grew before.

Editorial Comment

"Witty but not very helpful" was the editorial verdict. The new "Bibliography" in the Year-book included 224 items, from Attfield's "Chemistry" to the *C. & D.* Diary for 1881.

In 1882 Michael Carteighe began his long "reign" as president of the Pharmaceutical Society, and his Conference secretarial duties were taken over by Mr. Sidney Plowman, F.I.C., of St. Thomas's Hospital, London. The help of local associations had been enlisted in an effort to interest colonial pharmacists by means of a wider distribution of the "blue list" of subjects suggested as suitable for investigation. One immediate result of such a distribution in Victoria was the arrival of applications for membership from twenty-one local chemists. Various improvements in the Year-book were being effected, including better paper and a wider range of abstracts, but the projected general index was found too costly for the moment. Operations for the year showed a small deficit, but Dr. Attfield, presiding at the Southampton meeting (August 22-24) saw no cause for alarm. Indeed, the one note of regret was the continued scarcity of applications for grants in aid of research. Welcoming the Conference at the Watts Memorial Hall, Mr. W. B. Randall claimed that Southampton was the scene of King Canute's famous "rebuke to sycophancy," whilst the building in which they were assembled was erected on the site of the garden where Isaac Watts must have seen his busy bee improving the shining hour.

Pharmacy's Relation to the State

The address from the chair was on the relation of pharmacy to the State, to be followed a year later, at Southport, by its obverse, the relation of the State to pharmacy. Together they provide a commentary on things as they were, as they ought to have been and as they might become. To Dr. Attfield it spelt pharmaceutical degradation to purchase preparations rather than to make them, because they seemed to be cheaper and "still sadder to say, perhaps better looking." Such a policy was, in fact, "buying pottage with the coinage of birthrights." It was unfortunate that two-thirds of the pharmacists of the country stood aloof from a Society dedicated to the advancement of pharmacy. There should be no question of the thoroughness of pharmaceutical education, based upon an adequate curriculum diligently followed for an approriate period, rather than a haphazard pass examination. From such a background, and with a Society co-extensive with British pharmacy, they could reasonably demand a Pharmacy Act in which all drugs would be regarded as restricted unless scheduled in a harmless category as suitable for general sale. That interesting, and indeed fascinating, reversal of the existing order was unfortunately overlooked when preparing the Southport address, which called for a simple extension of the spirit and the letter of the Act of 1868. "with a few improvements in matters of what might be termed pharmaceutical police." Information on trade conditions had been sought from some 300 correspondents and, of the 207 who replied, only thirteen were satisfied, whilst 145 complained "more or less bitterly" of the depreciation of their businesses and the depredations of unqualified competitors. Even in 1883, the year that saw the first edition of Martindale's Extra Pharmacopœia, it was a frequent theme that "pharmacy was not what it used to be." Prescriptions were few except in

favoured instances. Too many doctors did their own dispensing, "patent" medicines were too popular, running away with a million pounds every year—a gloomy picture to be sure, but the questionnaire seemed to ask for it.

The Southport address was discussed in the *Times*, and copies were circulated to members of Parliament, but Dr. Attfield was not at his best as a politician; one wishes that he had adopted a subject from his favourite science. His occasional comments from the chair could be illuminating, as when he welcomed Mr. Proctor's paper on the use of methyl orange. They would never get near to "the truth about acidity, alkalinity and neutrality" by remaining satisfied with litmus as indicator. Under the modest title of "remarks on experiments with the ointment bases," Mr. W. Wilmott tried to bring order to a ragged assortment, recently complicated by the use of hydrocarbons. The original boric acid ointment, prescribed by Lister, had a base of white wax, paraffin and almond oil, with boric acid 1 in 6. It was a "beautifully white product, both smooth and firm" but it took some managing and did not keep in perfect condition for more than a few months. Mr. Martindale had therefore obtained approval for his variations of vaseline and paraffin wax in place of the white wax and



Mr. R. Reynolds



Mr. H. C. Baildon

almond oil. At Southampton ferrous iodide preparations had been vigorously criticised, and Mr. Fletcher confessed ruefully that the Conference was giving manufacturers rather a bad time. It was now the turn of sweet nitre and sal volatile, which were found to be extremely variable. Both meetings showed abundant signs of life, and attendance at Southport reached the high-water mark of 193. By way of light relief there was a visit to St. Helens in pouring rain, followed by a garden party at which Charles Halle's choir sang part songs, glees and choruses.

"Divorce" from British Association

In 1884 the British Association was meeting in Montreal, and the Conference, despite its growing overseas activities, felt that it would be unwise to travel so far, and gratefully accepted a cordial invitation from Hastings. Mr. John Williams had been elected to the chair, and the committee expresssed the general regret that Mr. Benger, one of the honorary secretaries, and Mr. Ekin (treasurer), had decided to resign their offices after serving for thirteen and seven years respectively. Colonial organisation was proceeding apace. Ten honorary local secretaries had been appointed, and 3,000 circulars setting forth the objects of the Conference were being distributed. The Committee also felt it necessary to pass a self-denying ordinance, which checked the generous impulses of local associations at Conference meeting-places; henceforward members would be responsible for their own entertainment. The financial statement disclosed the facts that expenditure was up by £150 and that the sale of £250 Consols had realised £248 15s.

In his opening address Mr. Williams revived the useful



Mr. J. Abraham



Mr. J. Mackay

practice of reviewing current ideas and achievements. A few years previously he would have been mainly concerned with chemical investigations of coal tar, its many technical and industrial applications, and the important scientific theories involved. More recently physical experiments on gases, conducted under immense pressures and at very low temperatures, had become of special interest (witness the lectures by Dewar). Of more immediate concern to pharmacists were the new pharmacopœias that had appeared in America, France and Germany, and it was no secret that another B.P. was due shortly. Of them all the American seemed too diffuse, the German too scientific, and the French too special. As for the new B.P., time would show, but it surely should be possible for pharmacy to be given more adequate recognition in its production. The idea of an international pharmacopœia was good, provided that the responsible committee did not fall into the old error of attempting too much too quickly.

The first two papers were by Mr. W. Elborne of Owens College, dealing with varieties of English rhubarb and their chemical examination. In the discussion, the importance of correct drying was emphasised and the chairman referred, with interesting irrelevance, to a new process for drying gun-powder by means of anhydrous calcium chloride. Mr. Gerrard confirmed his earlier reports on the alkaloidal content of belladonna leaves and roots, and compared plants grown in his own town garden with wild and cultivated country specimens. Henbane was much more difficult, according to Mr. T. J. Hasselby, describing his own experiences in a newly made Yorkshire garden. In an amusing aside, Dr. Redwood queried the value of cultivation; his own gardener had insisted on using common salt as a manurial agent on his asparagus beds. It had been a poor crop before, but afterwards he got none! Mr. Cooke, Wandsworth, deprecated such an unscientific approach—evidently failing to appreciate the strength of mind of Dr. Redwood's gardener. Mr. Thomas Greenish had been using his microscope again to some purpose in the examination of linseed meals. He much preferred a lightly crushed linseed, with some of the husk removed but with all its own oil retained, rather than a meal from which the oil had been pressed for other purposes. Such a product was surely unworthy of the pharmacists of the day. The pros and cons of standardisation were discussed from differing standpoints, but with similar conclusions, by Messrs. G. F. Schacht and D. B. Dott. The former did not want pharmacy to foster a spurious standardisation in advance of a clear demand from the doctors. "Why should they be so wonderfully anxious to supply a blank in medical science when they were not asked to do so?" Mr. Dott could not understand how they could usefully standardise a galenical by estimating the amount of alkaloid it contained, if the activity were not due to that alkaloid. Dr. Redwood tactfully pointed out some of the practical issues involved. If a doctor found tincture of cinchona useful in his practice, why should he be debarred

from prescribing it because not every constituent could be standardised? Mr. Plowman maintained that "some very distinguished therapeutists" considered that certain drugs, notably opium, had remedial effects that could not be obtained by any mixture of alkaloids. Mr. Martindale's view was that they should exclude bad drugs by official tests rather than standardise official preparations. He distrusted standardisation in terms of one alkaloid when several alkaloids were present in the original drug. Mr. Martindale also had a paper on Seidlitz powders and queried, incidentally, the origin of the name; was it derived from a spring in Bohemia or was it a corruption of the name of a Rochelle apothecary? Dr. Thresh had conducted a lengthy research into the pungent principles of plants, but a fire in his laboratory had destroyed a large quantity "which had cost no end of trouble to isolate and purify." The disclosure of varying strengths of commercial mercury preparations led to brisk exchanges between retail and manufacturing members.

Into the Dust-hole

Mr. Schacht strongly advised dispensers to prepare their own grey powder, though he confessed that a recent batch of his own making contained "distinct traces of oxide; it had been, of course, immediately thrown in the dust-hole." Two new names of special note were those of Peter MacEwan, reporting on commercial Peruvian balsam, and a young man disguised as *John R.* Hill, who maintained that excessive amounts of copper were present in many commercial preparations. One direct result of this Conference was the formation of the Hastings Chemists' and Druggists' Association, and Mr. F. Rossiter, on its behalf, said that they ought to pass a vote of thanks to the British Association for going to Canada. Aberdeen was chosen as the venue for 1885, with Mr. J. B. Stephenson, Edinburgh, in the chair, Mr. Charles Umney as treasurer, and Dr. Thresh succeeding Mr. Benger as one of the honorary general secretaries.

(*To be continued*)

NEW BOOKS

Principles of Unit Operations

A. S. FOUST and others. *Chapman & Hall,* 37 Essex Street, London, W.C.2. 11 × 8¼ in. Pp. 578. 120s.

CHEMICAL processes usually involve varying sequences of operations, and the successful application of chemical engineering depends upon breaking up the sequence into its units. In the book the authors deal first with theoretical aspects and later tackle practical problems. They begin with an analysis of the physical behaviour of a system and the establishment of a simplified physical model. The basic mathematical relation is given, using the model, and the resulting general expression is then applied to specific operations. The book is the result of several years of teaching experience at Lehigh University, Pennsylvania, U.S.A., and is aimed at junior chemical engineering students.

Organometallic Chemistry

H. H. ZEIS (editor). *Chapman & Hall, Ltd. (Reinhold Publishing Corporation, New York, U.S.A.),* 37 Essex Street, London, W.C.2. 9¼ x 6 in. Pp. xiv + 528 + indices. 140s.

UNDER the editorship of Dr. Zeis, fourteen experts in their respective fields report on subjects currently under active investigation. Among the topics are organo-boranes, organo-aluminium components and organosilyl derivatives. New information is given on benzene chemistry, vinyl-metallics, metallocenes and metal carbonyls. The book is number 147 in the American Chemical Society's series of chemical monographs, and is timely in view of the present renewed interest in organometallic chemistry. Though not a comprehensive survey, it may be recommended as a first-hand and up-to-date account of contemporary research in the field.

Gas Chromatography Abstracts 1960

C. E. H. KNAPMAN (editor). *Butterworths Publications,* 485 Bell Yard, London, W.C.2. 10 × 6 in. Pp. xi + 200. 42s.

SPONSORED by the gas chromatography discussion group associated with the Hydrocarbon Research Group of the Institute of Petroleum, this volume follows a similar pattern to that of its two predecessors. It contains, however, 158 more abstracts than the previous publication, and the list of journals regularly scanned or abstracted has been enlarged and revised. Subjects and authors are indexed. A measure of the remarkable growth of gas chromatography, which has become in a comparatively short time one of the most important chemical techniques, is that the coverage of the book is being increased still further for the next edition and that a cumulative index to the abstracts is to be issued during 1963.

Handbook of Chemistry

N. A. LANGE (editor). *McGraw-Hill Publishing Co., Ltd.,* McGraw-Hill House, 95 Farringdon Street, London, E.C.4. 8 x 5½ in. Pp. xiv + 1,969. 70s.

REFLECTING modern developments, the tenth edition of this handbook incorporates new matter on the properties of plastics as materials of construction, and on alloys. It covers such diverse subjects as solders and fluxes, polarography, activity coefficients of ions, drying agents, specific-heat standards, luminescence and the fundamental constants of physical chemistry. Detailed tables are given of solubility, density, refractivity, viscosity, vapour pressures and other specific properties, many of the tables rewritten for this edition. An index that contains nearly 3,000 entries makes for the ready availability of information. Synonyms are given as footnotes to the tables of organic and inorganic compounds, and a formula index facilitates identification under a wide variety of descriptions.

Rogers' Inorganic Pharmaceutical Chemistry

T. O. SOINE, PH.D., and C. O. WILSON, PH.D. *Henry Kimpton,* 134 Great Portland Street, London, W.1. 9½ x 6 in. Pp. 705. Seventh edition. 75s.

ALTHOUGH thoroughly revised to accord with the United States Pharmacopeia XVI and [U.S.] National Formulary XI, the basic principles on which this well-established textbook has been written are unchanged with this, the new (seventh) edition. The alphabetical arrangement of the compounds of each element, based on the periodic table and the monograph treatment charactersitic of the book in the past, have been retained. Despite deletion from the official compendia of certain substances of dubious therapeutic value, such as the hypophosphites and glycerophosphates, they are nevertheless briefly discussed. The authors state that "in the future, as they drop more or less completely from common usage, they will also be deleted from consideration in the text."

Chemicals In Food

FRANKLIN BICKNELL, M.D. *Faber & Faber, Ltd.,* 24 Russell Square, London, W.C.1. 7½ x 5 in. Pp. 192. 12s. 6d.

THE full title of this book is "Chemicals in Food and in Farm Produce: Their Harmful Effects" which theme the author ably and relentlessly pursues throughout the text. The book is extremely readable and the case histories of toxicity and disease caused by accidental contamination of foodstuffs through chemicals, surprising. Dr. Bicknell emphasises, by illustration, what has occasionally happened through the use of herbicides and pesticides in agriculture and mentions the risks involved in feeding hormones to cattle and poultry. With the problem of increasing world food supplies to meet the rapidly growing population it seems difficult to visualise how that end may be achieved without the aid of the modern chemicals. Dr. Bicknell does not supply the answer in this book. The negative approach however should not detract from the instruction and entertainment the reader will get from reading it. However, if the manufacturer of chemicals frowns at Dr. Bicknell's book then the brewer will be delighted, for in discussing dental decay prevention, he says:

"With a *pH* of about 4—as has cider—light beer is not acid enough to damage the teeth and having none of the other drawbacks of soft drinks, but containing instead many essential nutrients, is far healthier than soft drinks at all ages. It is

sad that a crippling tax and foolish licensing laws have enabled untaxed soft drinks to compete with light beers."

Textbook of Pharmacognosy

G. E. TREASE, B.PHARM., F.P.S., F.R.I.C., F.L.S. *Baillière, Tindall & Cox,* 7 Henrietta Street, London, W.C.2. 9 x 5½ in. Pp. 818. Eighth edition. 45s.

CONSIDERABLE portions of this new edition of Professor Trease's book have been rewritten to bring it up to date, particularly in the chapters dealing with the London drug trade and the cultivation of medicinal plants. Few authors of books on pharmacognosy have hitherto taken sufficient notice of changed conditions since the 1939–45 war. Additional space has been given by the author to the constituents of drugs and to a number of newer and more specialised aspects of pharmacognosy such as chemical "races," the biogenesis of actual constituents and the uses of radioactive isotopes. The new material replaces the appendix of the last edition and space has been saved by using smaller type for the descriptions of a number of drugs of secondary importance to students. Thus the new edition varies little in size from its predecessor. As usual the book contains an abundance of illustrations (267 in all). Many of them appear for the first time; they include some from THE CHEMIST AND DRUGGIST for which the author makes acknowledgement in his preface.

Modern Pharmacology and Therapeutics

RUTH D. MUSSER and J. G. BIRD. *The Macmillan Co.,* New York, U.S.A. 8½ × 5¾ in. Second edition. Pp. xiv + 889. 49s.

A COMPLETE revision of text has proved necessary for this edition, owing to the many new drugs that have come into medical usage since the textbook was first published in 1958. Following six introductory chapters, which outline the basis of materia medica and give notes on drug administration, metabolism and dosage, the text turns to a general therapeutic review of anti-infective agents; drugs acting on the central nervous system, the peripheral and autonomic nervous systems; drugs affecting the cardiovascular system, the gastrointestinal tract, reproductive organs and kidneys; drugs influencing metabolism the skin and mucous membranes; enzymes and anti-allergics. Final notes appear on toxicology and immunological agents. Each chapter ends with a set of questions. The scope of the book extends well into the pharmaceutics field by inclusion of an "arithmetic review" that tests the reader's ability to understand fundamentals of prescription calculations. All in all, the outlook is quite practical.

Organic Chemistry Today

F. W. GIBBS. *Penguin Books, Ltd.,* Harmondsworth, Middlesex. 7 x 4½ in. Pp. x + 294. 7s. 6d.

DR. GIBBS describes his book as being designed "to give the general reader an account of a few broad topics, modern developments being shown where possible against their historical backround" so as to cover as much ground as possible, and in the hope that the book "may be of use not only to general readers and senior pupils in schools, but also to those who are more advanced in the science but whose experience has been restricted to a somewhat narrow compass or to a rigorous syllabus." The book should command a wide and popular audience. For "absolute beginners" two introductory chapters explain the general principles of the subject. The other chapters indicate how organic chemistry is applied in practice in industries ranging from coal, oil and petroleum to food chemicals, drugs, synthetic dyes and natural pigments. The author has written a most readable book in which he achieves lucidity without "playing down," and in which he has been able to incorporate a remarkable amount of information. Illustrations and chemical formulæ are copious, and there are a bibliography and an index.

Methods for the Analysis of Non-soapy Detergents (NSD) Products

G. F. LONGMAN and J. HILTON. *Society for Analytical Chemistry,* 14 Belgrave Square, London, S.W.1. 9¾ × 6¾ in. Pp. ii + 30. 15s.

ACCORDING to the authors of this monograph, the formulation trends in detergent products, particularly in non-soap detergent powders (NSD), has remained "reasonably static" during the past two or three years. They have now found it possible, therefore, to present a comprehensive scheme of examination for such materials. Developed at the Unilever Research Laboratory, Port Sunlight, Ches, in the light of years of experience in the analysis of detergents, the scheme covers most of the commonly used active detergents employed as components at the present time. In addition to at least one such component, NSD products may contain auxiliary surfactants ("lather improvers"), organic or inorganic "builders" (such as fatty alkylolamides) and sodium carboxymethylcellulose (SCMC), fluorescent agents, condensed phosphates, perborates and percarbonates, silicates and, so on. Full information can only be obtained by quantitative analysis, and the authors' practical scheme provides for the determination and identification of all organic and inorganic components, including "many whose presence may be accidental but unavoidable." The scheme is not designed to include the examination of pure soap products or soap powders. The monograph is bound in a stout paper cover.

NEW FILMS

Redemption of a Retailer

T.V. CARTOONS, LTD. Cartoon in colour. Sound. Running time 6 minutes.

LUCINDA, the girl who sells seashells on the seashore, is featured in one of two new films on salesmanship produced for Gillette Safety Razor Co. (a division of Gillette Industries, Ltd.), Great West Road, Isleworth, Middelsex. Lucinda, not a very successful seller of seashells when the film opens, is coached by an expert salesman in the task of marketing her wares and boosting sales. She learns how to arouse interest in her seashells. She realises that she must know all about them, know how to get regular supplies and know why people want them. Trade booms. The film is available in 16-mm. copies in the G.B. and Sound Service film libraries and—to companies and trade organisations wishing to show the film—in the company's own film library. The script for the second was written by Mr. Alastair Sedgwick (the company's marketing director). It tells the rags-to-riches story of a country retailer whose dwindling business is saved by a friend's advice on which goods to promote. Gillette products naturally play a part in his success.

The Double Bond

GREENPARK PRODUCTIONS, LTD., in association with the FILM PRODUCERS GUILD, for *Distillers Co., Ltd.,* 20 St. James's Square, London, S.W.1. 35-mm. Colour. Optical sound. Running time 28 minutes.

THE film describes, non-technically, the production and utilisation of petroleum-based chemicals, as at the factories and plants of the company and its associates. A tanker bringing crude oil from overseas is shown tying-up in a loch on the west coast of Scotland. Its contents (crude petroleum) are pumped by pipeline to a refinery at Grangemouth, where the material is submitted to a process of "cracking" (the meaning of which is illustrated with graphic ingenuity) so as to break up the hydrocarbons into smaller molecules. The combination of atoms is pictured as taking place through links or bonds, two shared bonds between two carbon atoms being the "double bond" of the title, which refers especially to the reactive hydrocarbons ethylene, propylene, butadiene and the butylenes. By adding other elements and compounds (water, chlorine or benzene, for example) those compounds, collectively the olefines, are used to build new compounds with useful applications. The simple units (monomers) form long-chain groups (polymers). In the plant at Grangemouth ethylene is converted into polyethylene, and propylene into isopropyl alcohol, first step towards the production of acetone. Propylene tetramer, another derivative, is used for the production of household detergents. Other products of the Grangemouth plant are butadiene, used for making synthetic rubbers, phenol, and ethyl alcohol. The film also shows the production at Hull from synthetic alcohols of acetate esters, acetic anhydride (used for cellulose acetate, drugs and pharmaceuticals), acetone, butanol and phthalates, vinyl acetate; and at Barry, South Wales, of polyvinyl chloride, nitrile rubber (based on butadiene and acrylonitrile) and polystyrene. The film concludes with an animated sequence suggesting some of the possible future developments for petroleum chemicals. It is intended for audiences interested in industrial and scientific matters.

NOTES ON NEW MEDICAMENTS

ACDRILE.—*Chemistry:* Methyl-alpha-amino-beta-thiol propionic acid, or methyl-betamercapto-alanine. This substance is the methyl derivative of cysteine, which is a biologically active sulphur-containing aminoacid. The sulphur, present as an active sulphhydryl group, is taken up by damaged tissue and is concerned with the maintenance of the mucosal lining of the respiratory tract.

ASILONE.—*Constituents:* Polymethylsiloxane and aluminium hydroxide. The term polymethylsiloxane is applied to a series of inert methylated silicon-oxygen polymers. These polymers vary in molecular weight and silicon-methyl ratio, and range in viscosity from mobile liquids to waxy solids. One compound is widely used as dimethicone in skin protective preparations. In Asilone the protective action of this type of compound is used in association with an antacid.

EQUAGESIC. — *Constituents:* Ethoheptazine citrate, meprobamate, aspirin and calcium carbonate. Ethoheptazine has some chemical relationship with pethidine, but its action is purely analgesic. That effect is largely specific, and aspirin is added to extend the analgesia to other sites. Meprobamate has muscle-relaxant as well as tranquillising properties, and the combination of drugs is an attempt to achieve a comprehensive action in painful conditions associated with mental stress and muscle tension. In Zactirin ethoheptazine is also present with aspirin. Other analgesic products of less common composition include Valtorin (chlorthenoxazin and phenacetin), Doloxene (*d*-propoxyphene), Lobak (chlormezanone with paracetamol), Parafon (chlorzoxazone with paracetamol) and Robaxisal (methocarbamol with aspirin).

EQUIVERT. — *Constituents:* Buclizine hydrochloride and nicotinic acid. Buclizine, also available as Vibazine, is one of the piperazine-derived antihistamines. Patients with vertigo may be divided into (a) those sensitive to histamine, which affects the permeability of the walls of the vascular vessels, and (b) those with vasospasm. Equivert is formulated to be of value in both groups, either by the antihistaminic action of buclizine or the vasodilator action of nicotinic acid. Other products used in vertigo include Ronicol (*β*-pyridyl-carbinol), Probanthine (propantheline) and Dramamine (dimenhydrinate).

GLYMAXIL.—*Chemistry:* Sodium gluconatodihydroxy-aluminate, a chelated aluminium compound which, by its buffering action during neutralisation with gastric juice, maintains the pH within physiological limits (*p*H 3-5). The peptic activity of the gastric juice, though reduced, is not suppressed. Other buffering products, diverse in composition, include sodium polyhydroxyaluminium monocarbonate - hexitol (Actal), aluminium glycinate (Prodexin, Glycinal) and bismuth aluminate (Bislumina). Aluminium hydroxide is present in many antacid preparations. Transid contains polyaminostyrene and produces a reduction in gastric acidity by an ion-exchange process.

HALDRATE. — *Chemistry:* 6-Alpha-fluoro-16 alpha methyl prednisolone acetate, or paramethasone acetate. This compound has the general properties of the corticosteroids, but has increased anti-inflammatory powers and reduced electrolyte-retaining properties. It is closely related to dexamethasone, which is 9-alpha-fluoro-16-alpha methyl prednisolone, and to the 16-beta-isomer (Betnelan), but it is stated that fluorine substitution in the 6-position causes less side effects such as cramp and myopathy. Paramethasone is also available as Metilar; and dexamethasone is marketed as Decadron, Deronil, Dexacortisyl, Dextelan, Millicorten and Oradexon.

METILAR. — *Chemistry:* 6-Alpha-fluoro-16-alpha methyl-prednisolone, or paramethasone, differing from dexamethasone only in a change in the position of the fluorine substituent from the 9- to the 6-position. That change in position is stated to result in a reduction of myopathies, cramp and salt retention. Dexamethasone is available as Decadron, Dexacortisyl, Dextelan, Millicorten and Oradexon; the isomeric 16-beta compound, betamethasone, is marketed as Betnelan.

NIROLEX. — *Constituents:* Mepyramine, ephedrine and guaiphenesin. The last-named compound, also known as guaicol glyceryl ether, is a powerful expectorant; ephedrine is a bronchodilator and mepyramine is the well-known antihistamine. The product is designed to relieve congestion of the respiratory tract, promote expectoration, and reduce any allergic factors. Guaiphenesin is also present with chlorcyclizine in Distolyt, with methylephedrine in Pulmodrine, and alone in Respenyl.

RECTALAD. — *Constituents:* Dioctyl potassium sulphosuccinate, soft soap, glycerin and water. The dioctyl compound is a wetting agent, facilitating the spread and penetration of the other constituents. The glycerin and soft soap are peristaltic stimulants. Other improvements on the old-type enema include the Fleet, the Fletcher and the Harker disposable enemas, which contain sodium phosphates. Dioctyl sulphosuccinate is also present in Dioctyl-Medo, and together with anthraquinone-type purgatives in Crolax and Emulax.

SOLVISAT. — *Constituents:* Hydrocortisone xanthogenic acid, ethanolamine, neomycin and bacitracin. The ethanolamine salt of hydrocortisone xanthogenic acid is active but is metabolised rapidly. By a double tube arrangement with Solvisat the ethanolamine is kept separate from the steroid until the product is applied to the skin. The ethanolamine compound is then formed *in situ*. The antibiotics are included to provide antibacterial cover and to deal with any associated infections. A number of other products containing a corticosteroid with antibiotics are also available; Predsol-N (prednisolone disodium phosphate with neomycin), Corticobiotic (prednisolone with soframycin and Neo-Cortef (hydrocortisone with neomycin) are examples.

STROMBA. — *Chemistry:* 17-Beta-hydroxy-17 alpha-methylandrostano(3,2c) pyrazole. The compound is also known as stanazolol, methylstanazol and androstanazol. It is related chemically to methyltestosterone, but the androgenic potency is markedly reduced. Conversely, the anabolic effects are greatly increased and the drug is effective both orally and when injected. Other anabolic steroids include norethandrolone (Nilevar), methandicone (Dianabol), oxymethalone (Adroyd, Anapolon) and nandrolone phenyl propionate (Durabolin).

SULPH-ILOSONE. — *Constituents:* Erythromycin estolate and sulphadimidine. Erythromycin estolate, also described as propionyl erythromycin ester lauryl sulphate, is a highly effective orally acting derivative; and higher and more prolonged blood levels are obtained with it than with the base or other derivatives. The ester is not destroyed by gastric acid, so that absorption is more consistent. Sulphadimidine is one of the most active and well tolerated of the sulphonamides, and combination with the antibiotic is of value in the treatment of mixed and resistant infections. Other products containing a systemically-active antibiotic and a sulphonamide include V-Cil-K-Sulpha, Sulmezil, Penidural-Sulphas, Penitriad and Distaquaine V-Sulpha.

SYNALAR.—*Chemistry:* 6-Alpha-9 alpha-difluoro-16-alphahydroxy prednisolone-16-17-acetonide, also referred to as fluocinolone acetonide. The compound exhibits the general properties of the topically applied corticosteroids, is rapid in action and effective in low concentrations, and does not cause systemic side-effects. Another fluorine-containing derivative, also used topically, is fludrocortisone (Florinef) or 9-alphafluorohydrocortisone. A number of related compounds are also available, but are intended for systemic use, and newer derivatives include dexamethasone (9-alphafluoro-16 alpha-methylprednisolone), betamethasone (9-alphafluoro-16 beta-methylprednisolone) or Betnelan, and paramethasone (6-alphafluoro-16 alpha-methylprednisolone) or Metilar.

TIGLYSSIN.—*Chemistry:* The tiglic acid ester of pseudotropine, also known as Tigloidine. The compound is related chemically to atropine, but differences in structure and optical configuration result in certain changes in activity. Thus whilst Tigloidine has similar effects to atropine on muscle, it lacks the anticholinergic properties of the older drug. It has therefore interesting therapeutic applications in the treatment of spasticity and other muscle disorders of central origin. Atropine is frequently of value in these conditions but anticholinergic side-effects such as dryness of the mouth and disturbances of vision limit its use. Tiglodine is virtually free from such side-effects, and in consequence larger doses than would be advisable with atropine can be used in spastic disorders.

YOMESAN. — *Chemistry:* N-(2¹-Chloro-4¹nitrophenyl)-5-chlorosalicylamide. The compound is a vermifuge with a selective action against the tape-worm. Unlike other anthelmintics, which may merely expel part of the worm, Yomesan damages the worm tissues, including the head, and a purge may be necessary if the worm is to be expelled in a recognisable state. Other drugs used against tape-worm infestation include dichlorophen (Anthiphen), mepacrine, carbon tetrachloride, tetrachlorethylene and extract of male fern.

Correction. — Phenylethylacetylurea, the active constituent of BENURIDE, is not synonymous with phenacemide (*chemically*, phenylacetylurea). Consequently it shows less toxicity and is claimed to avoid the personality changes sometimes apparent during phenacemide administration. Phenylethylacetylurea is also available, with phenytoin and phenobarbitone, in Trinuride.

NEW U.S. DRUGS

Evaluated by the American Medical Association Council on Drugs

CARISOPRODOL (Soma).—*Chemically:* N-isopropyl - 2 - methyl - 2 - propyl - 1,3 - propanediol dicarbamate. A skeletal muscle relaxant with approximately the same limited degree of therapeutic effectiveness as other mephenesin-like compounds currently in use. The muscle relaxant effect results from central rather than peripheral action, but the exact site of action is not yet known. Carisoprodol has produced equivocal results when used in the treatment of spastic states such as hemiplegia, spastic paraplegia, dystonias, and torticollis. The drug has no significant effect on involuntary movements, postoperative pain, or headache. It usually acts within 30 minutes of administration, for up to 6 hours. Side-effects appear to occur relatively infrequently. The most common reaction is drowsiness. Adult dosage is 350 mgm. four times a day, orally; children (over 5 years) 250 mgm. two or three times a day. Available as capsules containing 250 mgm. and tablets containing 350 mgm. *Commercial source:* Wallace Laboratories, Cranbury, N.J.

POISON IVY EXTRACT, A.P. (Aqua Ivy, A.P.). — *Chemically:* An alum precipitated pyridine extract from the leaves of *Rhus radicans* (poison ivy) and *Rhus toxicodendron* (poison oak). It is proposed for use as an oral prophylactic agent against rhus dermatitis. It is claimed that ingestion of poison ivy extract, alum precipitated, will reduce the susceptibility of sensitive individuals. Results of clinical studies on the prophylactic use of this agent and on patch test alterations after administration of the extract are conflicting. Gastrointestinal disturbances have been noted in some patients after its ingestion. Joint swelling and purpura have been observed, but there is some question of whether this preparation is the causative agent or not. The dose is 0·6 mgm. daily for 2 weeks, then 1·2 mgm. daily for a further 2 weeks. Thereafter, a dose of 1·8 mgm. daily is administered until a total of 120 mgm. (100 tablets) has been given. It should be given under close medical supervision to children under 6 years of age. Available as tablets containing 1·2 mgm. *Commercial source:* Clark-West division, Syntex Laboratories, Inc., New York, N.Y.

Kleenex* tissues sell double all other brands combined

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NEW TV THEME PROMOTES KLEENEX FOR COLDS—AND LOTS OF OTHER USES TOO. Biggest-ever TV campaign this winter (over 450 30-second spots on all stations) will show your customers more and more reasons why Kleenex tissues are indispensable. Take advantage of rising sales, bigger advertising—

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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JANUARY 3: With the Christmas and New Year holidays intervening since the issue of the last normal Trade Report, there has been little activity in either the CRUDE DRUG or ESSENTIAL OIL markets. The usual end-of-year stocktaking by many manufacturers has also been a restricting factor to business.

HONEY has been quiet and prices of all but Jamaican and Canadian material have eased.

The only changes among essential oils were a twopence-per-lb. rise in Formosan CITRONELLA and an advance in PALMAROSA of one shilling per lb.

One manufacturer announced a cut in the price of CITRATES of one-halfpenny per lb. While one manufacturer put up the price of the CITRIC ACID by £10 5s. a ton, others would not comment whether they were going to follow the lead. A number of SULPHONAMIDES have been reduced. The new rates for ETHYL ALCOHOL, METHYLATED SPIRITS, ACETIC ACID, etc., which were reduced on January 1, are given below. The development of a new formulation of GRISEOFULVIN has enabled manufacturers to halve the cost of treatment by that drug. Research has shown that, by reducing the particle size of the drug, half the dose is as effective as that previously given to patients.

The surcharge levied by the Sugar Board was increased by 9s. 4d. per cwt. on December 30, 1961. Half of the increase is being reflected in the ex-refinery price because the world market price has fallen in the past six months, increasing the Board's deficit in having ended the Commonwealth Sugar agreement and selling at world prices thus increasing the Board's cost of financing British Sugar Corporation. The other half of the increased surcharge is counter-balanced by a reduction in production cost.

According to a report from Madrid on the Spanish OLIVE OIL prospects following the current year's harvest, the crop appears likely to amount to not more than 140,000 tons against 153,000 in 1960. The exportable surplus of the Mediterranean area, excluding Spain, is estimated at 172,000 tons for the current year. While the present international quotation was between £157 and £175 per ton. Spanish oil exports during 1960 averaged £184 per ton. The report adds that Spain is pricing herself out of the market which may not worry the producers unduly since their home demand is booming.

Pharmaceutical Chemicals

ACETIC ACID. — B.P. glacial, minimum terms, £92 per ton naked; 98–100 per cent. £88; If supplied in carboys and demijohns add £17 per ton; drums £7 extra; plus cost of containers returnable at seller's expense. 80 per cent. grades: technical £73 per ton and pure £79, minimum bulk terms.

ANEURINE HYDROCHLORIDE. — 1-kilo £7 15s.; 10-kilos, £7 10s. per kilo.

ASCORBIC ACID.—One-kilo, £2 11s. 3d.; 10 kilos, £2 8s. 9d. per kilo. SODIUM ASCORBATE is 6s. per kilo more than the acid.

CALCIFEROL.—B.P. from 2s. 10½d. to 3s. 3d. per gm. for 1-kilo lots.

CALCIUM CARBONATE.—B.P. light precipitated powder, 1-ton lots, £34 per ton in free bags, ex works.

CALCIUM CHLORIDE. — B.P.C. fused, granulated, 10½d. per lb. in 1-cwt. lots.

CALCIUM GLUCONATE. — Three-cwt. and upwards, 3s. 6d. per lb.; 1–2 cwt., 3s. 7d.

CALCIUM PANTOTHENATE.— £6 per kilo.

CALCIUM PHOSPHATE.—B.P.C. is 1s. 5d. per lb. for 1-cwt. lots and 1s. 4d. for 5-cwt.

CALCIUM SUCCINATE.—10s. 6d. to 12s. per lb., as to quantity. SUCCINIC ACID is from 10s. 6d. to 12s. 3d. per lb.

CITRATES.—Per lb.:—

	1 cwt.	5 cwt.
	s. d.	*s. d.*
SODIUM†	2 6½	2 4½
POTASSIUM†	2 9	2 7½
IRON AND AMMONIUM* ..	3 5½	3 3½

†Powder 3d. per lb. more. *Scales 10d. per lb. more.

CORTISONE. — One-kilo lots, ACETATE, 6s. 6d. per gm. HYDROCORTISONE, ACETATE or ALCOHOL, 7s. per gm.

CYANOCOBALAMIN. — Less than 25-gm. lots, £7 per gm.; 100-gm., £6 10s. per gm.

EPHEDRINE. — ALKALOID nominally 6s. 6d. per oz., SULPHATE, 4s. and HYDROCHLORIDE, 3s. 3d. per oz.

FOLIC ACID. — B.P. and U.S.P., 1-kilo lots, £28 per kilo.

HYDROGEN PEROXIDE. — 27·5 per cent. (by weight), £115 per ton; 35 per cent. £138 in returnable carboys.

IODIDES. — (Per kilo). Potassium, 50-kilo lots, 19s. 3d.; SODIUM, 24s. 3d. for 25-kilo lots. AMMONIUM, 44s.

IODINE.—Resublimed in less than 50-kilo lots, 25s. 4d. per kilo. Minimum delivered rate for CRUDE is 17s. 4d. per kilo.

IODOFORM.—Powder (per kilo), 51s. 6d. in 50-kilo lots; less than 50-kilos, 53s. Crystals are 3s. per lb. more.

IRON SALTS.—GLUCONATE, B.P.C., 6s. 3d. per lb. in 1-cwt. lots; SULPHATE, B.P., crystals, 10d. per lb. in 28-lb. lots: 1-cwt., 60s. per cwt., 5-cwt., 55s. per cwt.; granular, 2s. 6d. per cwt. extra. SULPHATE EXSICCATED, 1s. 6d. per lb. for 28-lb.; 1-cwt., 123s. 5-cwt., 118s. per cwt., 1-cwt. fibre kegs free. Other packages extra. PHOSPHATE, B.P.C., 28-lb., 3s. 6d. per lb.; 1-cwt., 3s. 3d. PHOSPHATE, B.P.C., 1-cwt., 3s. 6d. per lb. OXIDE RED PRECIPITATED, B.P.C., 1949, 1-cwt., 2s. 1d. per lb.; CARBONATE, SACCHARATED, B.P.C., 1949, 28-lb., 3s. 3d.; 1-cwt., 3s. AMMONIUM CITRATE, scales, 4s. 1½d.; granular, 3s. 3½d. per lb. (5-cwt. lots). AMMONIUM SULPHATE, 1-cwt., 1s. 7d. per lb. QUININE CITRATE, 2s. 3d. per oz. in 100-oz. tin.

NICOTINAMIDE. — (Per kilo). One-kilo, 44s. 6d.; 10 kilos, 42s.; 50 kilos, 41s.

NICOTINIC ACID.—One-kilo, 32s. 9d.; 50-kilos, 29s. per kilo.

NIKETHAMIDE.—Per kilo, 100s.

OESTRADIOL.—MONOBENZOATE is 16s. per gm.

PHTHALYL SULPHATHIAZOLE. — Five-kilo lots, 60s. per kilo.

PREDNISOLONE.—One-kilo lots, ALCOHOL, 14s. 3d.; ACETATE, 12s. 9d. per gm.

PYRIDOXINE. — One-kilo, £32 per kilo; 10 kilos, £31 15s.

RIBOFLAVINE. — One kilo, £12 7s. 6d.; 10-kilos, £12 2s. 6d. per kilo.

ROCHELLE SALT.—Powder or granulated, 5-cwt. lots or over in kegs, 220s. per cwt.; 1-cwt. 222s. 6d. (bags less 5s.).

SACCHARIN.—B.P.C. powder. One lb. and over, 108s. 2d. per lb.; SODIUM SALT, 87s. 6d. per lb. Prices include duty and carriage.

SALICYLIC ACID.—One-cwt., 3s. 4½d. per lb.; 5-cwt., 3s. 2½d. per lb.

SUCCINYL SULPHATHIAZOLE. — Five-kilo lots, 90s. per kilo.

SULPHADIAZINE.—Five-kilo lots, 90s. per kilo.

THEOPHYLLINE.—12½-kilo lots: ALKALOID ANHYDROUS, 33s. per kilo and B.P., 32s. 9d.; AMINOPHYLLINE, 30s. per kilo, 12½ kilos, 31s. per kilo.

VITAMIN A.—Synthetic. Supplied in concentrate 1 million international units per gm. as acetate or palmitate the price is £26 per kilo for one-kilo lots.

VITAMIN D_2.—In oil, 2 million units per gm. the price is 67s. 6d. per kilo for 100,000 m.i.u. Crystalline: see under calciferol.

VITAMIN E (synthetic or natural).—TOCOPHERYL ACETATE, B.P.C., 25 gm. to 100 gm., 10d. per gm., 100 gm. to 1 kilo, 8d. per gm.; 1 kilo and under 10 kilos, £27 15s. per kilo; 10 kilos, £27 per kilo.

Industrial Chemicals, Solvents

ACETALDEHYDE. — The 100 per cent. is £122 per ton.

ACETATES. — Per ton, spot 1-ton lots: AMYL (technical), £254 and B.S.S., £256. BUTYL, £259; ETHYL, £134; ISOPROPYL, £129.

ACETIC ANHYDRIDE.—12-ton lots £108 per ton, delivered U.K. in returnable drums; 2½-ton, £112.

ACETONE.—One-ton lots spot, £84 per ton in drums.

BENZOLE.—Thiophene-free, 9s. 3½d. per gall. for one 50-gall. barrel; pure 6s. 3½d. per gall.

N-BUTYL ALCOHOL. — 1–5-ton lots, £159 per ton and one-ton lots, £163 per ton. SECONDARY, £130.

CARBON TETRACHLORIDE. — In 40-gall. drums, 1 ton and under 2 tons, £83 15s.; 4 tons and upwards, £82 5s.

ISOPROPYL ALCOHOL. — Technical grade (99 per cent.) in tank car lots from 4s. 8½d. to 4s. 10½d. per gall.; anhydrous in 45 gall. drum lots is 7s. 3d.

METHYL ETHYL KETONE. — One-ton lots, £138 10s. per ton.

NAPHTHALENE.—Nominal home contract prices per ton for phthalic makers are around £42, naked ex works.

PHTHALATES. — Prices (per ton) one-ton lots; DIBUTYL, £206; DI-ISOBUTYL, £199; DI-ETHYL, £190 10s.; DI-METHYL, £182.

STEARATES. — Spot prices for minimum 1-ton lots:—ALUMINIUM (all grades), 253s. 6d. per cwt. CALCIUM (precipitated), 243s. 6d. LEAD (30 per cent.), 223s. 6d.; MAGNESIUM (standard), 272s. and (superfine), 302s.; ZINC, 226s. to 286s. as to grade.

Alcohol

BRITISH SPIRIT (fermentation grades) per proof gall.:—

Ethyl Alcohol: (95 per cent. Gay Lussac, 66 *o.p.*): where the minimum delivery is 2,500 bulk gall. or over 3s. 7d.; 1,500, 3s. 8d.; 500, 3s. 9d. Prices are exclusive of duty and are for tank wagon lots. In 40–90-gall. drums there is a surcharge of threepence per proof gall.

Absolute Alcohol, 95·5 per cent., 74·5 *o.p.*, from 3s. 11d. to 4s. 1d. for same quantities; the special high strength (99·9 per cent., 75·2 *o.p.*) from 4s. 3d. to 4s. 8d. (in drums) for 1,000-40 galls. (bulk). *Doubly Rectified Alcohol* (*S.V.R.*) 95·8 per cent., 68 *o.p.*, from 3s. 9d. to 3s. 11d. *R. R. Absolute Alcohol* (re-rectified), 99·7 per cent., 75 *o.p.*, 8s. per proof gall. net (for 40-gall. drum). Duty is £11 13s. 7d. per proof gall.

SYNTHETIC GRADES (supplied only to buyers authorised by Customs and Excise to buy duty free) the 95 per cent. is from 2s. 10d. to 3s. 0d. and ABSOLUTE (99·5 per cent.), 3s. 1d. to 3s. 3d., bulk deliveries.

Methylated Spirit

METHYLATORS' rates per bulk gall. in Great Britain are as follows:

Industrial Methylated spirit: Strength 61 *o.p.*, 500 gall. and over, 5s. 1d.; 100 gall. and under 500 gall., 5s. 6d.; 40 gall. and under 100 gall., 5s. 11½d.; 10 gall. and under 40 gall., 6s. 5½d.; 5 gall. and under 10 gall., 6s. 11½d. Strength 64 *o.p.*, halfpenny per gall.; 66 *o.p.* (B.P.), one penny; 68 *o.p.*, 3½d., more than the above rates with 74 *o.p.* at 5s. 10½d.; 6s. 3½d.; 6s. 9d.; 7s. 3d. and 7s. 9d. for similar quantities. Tank wagon delivery is 2d. per gall. off list price—minimum, 500 gall. For industrial methylated spirit of perfumery quality prices are from 6s. 6d. (tank wagon) for 500 gall. to 8s. 0½d. (10 gall. drums) for 64 *o.p.*

Pyridinised industrial methylated spirit: Strength 66 *o.p.*, 500 gall. and over, tank wagon delivery, 5s. 3½d.; 500 gall. in 40-gall. drums, 5s. 5½d.; 100 gall. and under 500 gall. (in drums), 5s. 10½d.; 40 gall. and under 100 gall., 6s. 4d.; 10 gall. and under 40 gall., 6s. 10d.; 5 gall. and under 10 gall., 7s. 4d.

Mineralised methylated spirit: Strength 64 *o.p.*, in one delivery, 500 gall. upwards, 5s. 5½d. in drums; 100 gall. and under 500 gall., 5s. 10½d.; 40 gall. and under 100 gall., 6s. 4d.; 10 gall. and under 40 gall., 6s. 10d.; 5 gall. and under 10 gall., 7s. 4d.

Terms—Deliveries free and carriage paid on returned empties; net cash.

Crude Drugs

ACONITE. — Spot: Spanish *napellus,* 2s. 6d. per lb.

AGAR.—Kobé No. 1, 14s. 4½d. per lb. in bond; shipment, 13s. 9d., c.i.f. Spanish, 14s. 6d., duty paid.

ALOES. — Cape primes, spot, 175s. per cwt.; shipment, 147s. 6d., c.i.f.; extra primes (Mossel Bay), 180s., c.i.f. Curaçao, spot, 450s.; shipment, 425s., c.i.f.

ANISE.—Chinese STAR, 175s. per cwt., spot.

BALSAMS.—Per lb.: CANADA: Spot, 23s. COPAIBA: Spot and shipment nominal. PERU: Spot, 8s. 4½d. in bond. TOLU (genuine as imported), 35s.; B.P., from 12s. to 17s. 6d. as to analysis.

BELLADONNA.—Herb, 1s. 9d. per lb., in bond. LEAVES, 2s. 3d.; shipment, new crop 1s. 10½d., nominal. ROOT, good testing new-crop nominally, 1s. 9d. landed.

CALAMUS.—Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

CAMPHOR.—B.P. powder, 3s. 10½d. per lb. in bond.

CLOVES. — Zanzibar spot, 2s. 9d. per lb.; shipment, 2s. 7¼d., c.i.f.

DIGITALIS. — *Purpurea* for shipment, old crop, 11d.; new crop, 2s. 4d. per lb., c.i.f.

ELEMI.—Spot, 1s. 9½d. per lb. Shipment, 1s. 4½d., c.i.f.

ERGOT. — Portuguese, 8s. per lb., c.i.f., for prompt shipment; spot, 8s. 6d.

GINGER.—(Per cwt.) African, spot, 260s.; shipment, 220s., c.i.f., nominal; Jamaican No. 3, spot, 270s. Cochin, spot, 152s. 6d.; new crop for shipment, 130s., c.i.f.

HONEY. — Australian light amber, 100s. to 105s. per cwt. and medium amber, 85s. to 100s. Argentine, 105s. to 110s. February–March shipments, Jamaican, 115s. to 120s.; Canadian clover, 150s. to 155s., all ex warehouse.

IPECACUANHA.—Spot cleared. Nicaraguan for shipment, 70s. per lb., c.i.f.; Costa Rican, 72s., c.i.f.

LIQUORICE. — Natural root: Persian cleared; Anatolian, 60s. per cwt.; Sicilian 1-kilo bundles, 1s. 6d. per lb. Block juice: Anatolian from 190s. per cwt.; Italian stick from 392s. to 470s. per cwt.

MENTHOL.—Chinese: spot, 57s. per lb., duty paid; afloat, 53s., c.i.f.; shipment, 52s. 6d., c.i.f. Brazilian, 42s. in bond: ci.f. Formosan, 44s., in bond; prompt January–February shipment, 37s. 6d., shipment, 44s. per lb., c.i.f. Spanish, 50s. 6d., duty paid.

NUTMEGS. — West Indian 80's, 9s. 6d. per lb., spot; sound unassorted, 6s. 9d.; defectives, 4s. 6d.

NUX VOMICA. — Shipment (per cwt.), Cochin, 65s., c.i.f.

ORRIS ROOT.—Florentine, 335s. per cwt.

PEPPER.—White Sarawak spot 3s. 4½d. per lb.; shipment, 3s. 3½d., c.i.f. Black Sarawak spot, 2s. 10½d.; shipment, 2s. 9½d., c.i.f. Black Malabar, 400s. per cwt. spot; shipment, new crop quoted at 295s., c.i.f.

PIMENTO.—Spot, 588s. per cwt.; shipment, 540s., f.o.b.

SEEDS.—(Per cwt.). ANISE.—Egyptian, 255s., duty paid. CARAWAY.—Dutch, 157s. 6d., duty paid. CELERY. — Indian firm. 310s. quoted spot; shipment, 270s., c.i.f. and new crop for June–July, 180s., c.i.f. CORIANDER.—Moroccan, 130s., duty paid; Indian bold, 95s., spot; shipment: Moroccan, 103s., c.i.f.; Indian bold, 78s. 6d., c.i.f. CUMIN.—Iranian, 150s., duty paid; shipment, 120s., c.i.f. DILL.—Indian, 100s. spot; shipment, 81s., c.i.f. FENNEL. —Indian, 105s. spot; shipment, 88s. 6d., c.i.f. FENUGREEK.—Moroccan, 95s., duty paid; shipment, 79s. 6d., c.i.f. MUSTARD. —English, 67s. 6d. to 82s. 6d., according to quality.

SENNA. — (Per lb.). *Tinnevelly* LEAVES, new crop, spot: Prime No. 1, 2s. 4d.; prime No. 2, 1s. 5d.; No. 3, f.a.q., 1s. 0½d.; and primes, 1s. 1½d. PODS: new crop on spot, 2s. 2d. for hand-picked No. 1; 1s. 7½d. for No. 2 and manufacturing cleared. *Alexandria* pods: Manufacturing, 1s. 6d.; hand-picked, 3s. 6d. to 5s.

SHELLAC.—F.O.T.N., 207s. 6d. per cwt.; No. 1, 217s. 6d.; F.O., 235s. to 285s., spot.

SLIPPERY ELM.—Bark, 3s. 6d. per lb. landed value.

TONQUIN BEANS.—Para spot, 6s. per lb.; shipment, 5s., c.i.f. Angostura, 10s. 6d.

TRAGACANTH. — No. 1 ribbon, £140 to £145 per cwt. No. 2, £132 10s. to £137 10s.

TURMERIC. — Madras finger, spot, 120s. per cwt.; shipment (old crop), 110s., c.i.f.

VALERIAN ROOT.—Spot: Belgian, whole for prompt shipment, 145s. per cwt., c.i.f.; Indian, 150s. to 180s., spot. Dutch, 172s. 6d., c.i.f.

VANILLIN.—Rates (per lb.) are now:— 5-cwt. lots, 21s. 6d.; 1-cwt., 21s. 9d.; 56-lb., 22s.; small quantities, 22s. 6d.

WAXES. — (Per cwt.). BEES'.—Dar-es-Salaam, spot, 430s.; shipment, 420s., c.i.f. Abyssinian, 390s. in bond, nominal; shipment, 375s., c.i.f. Sudanese, spot, 420s., nominal, duty paid; shipment, 375s., c.i.f. CANDELILLA, spot, 465s.; CARNAUBA, fatty grey, spot, 425s.; shipment, 410s., c.i.f.; prime yellow, spot, 700s. quoted; shipment, 645s., c.i.f.

WITCH HAZEL LEAVES. — New crop, 2s. 11d. per lb., spot.

YLANG YLANG.—Spot. 37s. 6d. per lb.

Essential and Expressed Oils

ALMOND.—Spanish, 4s. 6d. per lb., duty paid.

ANISE.—Chinese, 12s. per lb., spot; shipment, 12s., c.i.f.

BAY.—West Indian short on the spot, prices nominal.

BOIS DE ROSE.—Brazilian, 13s. 9d. per lb. on the spot and 13s. 9d., c.i.f.

CASTOR.—Home produced B.P. oil, spot, £155 per ton naked ex mill (2-ton lots).

CITRONELLA. — Ceylon, spot, 6s. 3d.; shipment, 6s. 2d. per lb., c.i.f. Formosan, spot, 8s. 9d., in bond; shipment, 8s. 3d., c.i.f.

CLOVE.—Madagascar leaf, spot, 7s. 9d. per lb., duty paid; shipment, 6s. 8d., c.i.f. RECTIFIED 87–88 per cent., 12s. Distilled bud-oil, English, B.P., 27s. for 1-cwt. lots.

DILL.—Imported, 38s. 6d. per lb., spot.

EUCALYPTUS.—Spanish, 3s. 3d. to 3s. 6d. per lb. on spot. Chinese, 3s. 3d., all duty paid.

FENNEL.—Spanish sweet, spot, 10s. per lb.

GERANIUM —Bourbon, 85s. to 95s. per lb. on the spot

GINGER.—Imported: Jamaican, 130s. per lb.; Chinese, 72s. 6d., duty paid.

GRAPEFRUIT.—Florida, 18s. per lb.

JUNIPER. — B.P.C. 1949 oil is from 10s. per lb. on the spot. English-distilled, 150s. JUNIPER WOOD, from 5s.

LAVANDIN.—Spot from 11s. per lb. for original drums.

LAVENDER.—French from 20s. to 50s. per lb. as to quality.

LEMONGRASS. — Spot 23s. Shipment, 22s. 6d. per lb., c.i.f.

LIME. — West Indian distilled, 48s. per lb. on the spot.

NUTMEG.—Imported B.P. oil is from 46s. to 90s. per lb. as to source. English distilled, 140s.

OLIVE.—Spot, 19s. to 19s. 6d. per gall. in drums ex wharf: shipment, £190–£205 per 1,000 kilos, f.o.b. Spanish port.

ORANGE.—Spot quotations of sweet oil include Floridan at 2s. 9d. per lb.; West Indian, 3s. 6d.

PALMAROSA. — Spot cleared. Shipment, 44s. per lb., c.i.f.

PEPPERMINT. — *Arvensis:* Chinese spot, 27s.; shipment, 25s., c.i.f. Brazilian spot, 15s. 3d.; shipment, January–February, 13s. 9d., c.i.f. *Piperita:* Italian, 48s. per lb., spot nominal; shipment new crop, upwards of 60s. for best oil asked. American from 28s. to 30s. per lb. as to make.

PIMENTO. — English-distilled berry from 150s. per lb; imported, 32s. 6d. Rectified leaf, 16s per lb.

ROSEMARY.—Spanish is 9s. 3d. per lb. on the spot for best quality.

RUE.—Spanish is 20s. per lb. spot.

SASSAFRAS.—Brazilian is from 3s. 9d. per lb., duty paid.

SPEARMINT.—American oil on the spot 30s. per lb.

TANGERINE.—From 35s. to 40s. per lb. as to quality.

TEREBINTH.—B.P., 2s. 3d. per lb.

UNITED STATES REPORT

NEW YORK, JANUARY 2: Firmness was reported in the case of IPECACUANHA and TOLU BALSAM but ERGOT turned easier and the price declined to $1·65 a lb., a 20 cent reduction. Higher per lb. among ESSENTIAL OILS were Bourbon GERANIUM at $14·50, up 75 cents and Bourbon VETIVERT at $16·50, up $1. Lower per lb. were SPEARMINT at $3·65, down 10 cents, and natural PEPPERMINT at $3·75, down 15 cents.

PRINT AND PUBLICITY

PUBLICATIONS

Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists.

BOOTS PURE DRUG CO., LTD., Station Street, Nottingham: "Strepsils antiseptic lozenges . . . laryngitis, pharyngitis, glossitis, stomatitis" (8-p. booklet).

THE BRITISH DRUG HOUSES, LTD., Graham Street, London, N.1: "Ancoloxin once-a-day stops pregnancy sickness" (leaflet).

BRITISH SCHERING, LTD., 225 Bath Road, Slough, Bucks: "The clear advantages of Neo-Mercazole in anti-thyroid therapy." (4-p. folder.)

BROOK, PARKER & CO., LTD., Ashfield, Great Horton Road, Bradford, 7, Yorks: "The Missing Link . . . Ferodex" (4-p. folder).

CIBA LABORATORIES, LTD., Horsham, Sussex: "Anabolism in clinical practice with Dianabol" (16-p. booklet); "Metopirone . . . adrenal inhibitor for use in testing pituitary function and treating œdema" (20-p. booklet).

DUNCAN, FLOCKHART & CO., LTD., 16 Wheatfield Road, Edinburgh, 11: "Romorphal . . . for relief of pain without C.N.S. depression," "Romotal . . . an adjuvant in morphine therapy," "Tiglyssin . . . for symptomatic relief of spasticity" (folders).

GEIGY PHARMACEUTICAL CO., LTD., Wythenshawe, Manchester, 23: "Anturan . . . the modern treatment of hyperuricæmia" (4-p. folder).

MAY & BAKER, LTD., Dagenham, Essex: "Nivaquine in tropical medicine" (18-p. booklet); "Pamergan pre-anæsthetic solutions" (20-p. booklet); "Trescatyl . . . anti-tuberculosis agent" (36-p. booklet); "Planidets . . . for prompt relief and effective treatment of sore throats" (card).

ORGANON LABORATORIES, LTD., Brettenham House, Lancaster Place, London, W.C.2: "Cotazym." Pp. 10.

PHARMETHICALS (LONDON), LTD. (Schering, A.G., Berlin), Victoria Way, Burgess Hill, Sussex: "Flurymal . . . non-specific leucorrhœa; pubertal, menopausal, senile vaginitis," "Scheriproct ointment . . . pruritis ani et vulvæ, anal fissures; suppositories . . . hæmorrhoids, proctitis" (blotters).

ROCHE PRODUCTS, LTD., 15 Manchester Square, London, W.1: "Librium . . . British double blind controlled trials," "Marplan . . . the depressed patient" (4-p. folders); "Redoxon . . . for massive dose vitamin C therapy" (blotter).

VITAMINS, LTD., 16 Upper Mall, London, W.6: "Vitamin B complex in high concentration . . . Becovite, Orovite" (4-p. folder).

WILLIAM R. WARNER & CO., LTD., Eastleigh, Hants: "Miscellanea"—folder illustrated with diary for November, and containing leaflets on Biomydrin, Lucofen, Nardil, Rinurel, Tedral, Tyrosolven (blotter), Veganin.

Booklets and Leaflets

MAY & BAKER, LTD., Dagenham, Essex: "Promicrol . . . ultra-fine-grain developer"; "Simprol . . . combined developer/fixer" (leaflets).

Catalogues

THE MURPHY CHEMICAL CO., LTD., Wheathampstead, St. Albans, Herts: "Murphy products for better gardening in 1962." Pp. 8.

Price Lists

ELI LILLY & CO., LTD., Basingstoke, Hants: Chemists' price list, November 1961. Pp. 4.

Periodicals

ANTIGEN, LTD., Roscrea, co. Tipperary, Eire: *Antigen Bulletin*. December 1961. Pp. 4.

BRUCE STARKE & CO., LTD., 5 Fenchurch Street, London, E.C.3: *Dragoco Report*. No. 12, 1961. Pp. 20.

JEYES' SANITARY COMPOUNDS CO., LTD., River Road, Barking, Essex: *Fluid Topics*: Winter 1961. Pp. 24.

KODAK, LTD., Kingsway, London, W.C.2: *Kodak Movie News*. No. 3. Winter 1961. Pp. 6.

SMITH & NEPHEW ASSOCIATED COS., LTD., 2 Temple Place, London, W.C.2: *S. & N. Reporter*. No. 34. December 1961. Pp. 8.

COMMERCIAL TELEVISION

Figures in the columns represent number of appearances of the product during the week.

January 14-20	London	Midland	North	Scotland	Wales	South	N.E.	Anglia	Ulster	Westward	Border	Grampian	Eireann
Alka Seltzer	2	—	3	1	2	3	3	3	3	3	4	3	1
Anadin	1	1	2	—	—	—	—	3	3	—	4	—	—
Andrews liver salt	—	2	1	3	—	3	3	4	3	—	2	3	—
Askit powders	—	—	—	14	—	—	—	—	—	—	7	—	—
Aspro	4	5	13	15	11	7	11	8	—	10	—	—	—
Body Mist	4	3	—	—	—	3	—	—	—	—	—	—	—
Bristow's shampoo	1	2	—	2	2	1	2	3	—	2	—	4	—
Buttercup syrup	—	—	2	—	—	—	—	—	—	—	—	—	—
Cofrex	—	—	—	—	—	—	8	—	—	—	—	—	—
Coldene cold treatment	—	1	—	—	3	—	—	—	—	—	—	—	—
Coldrex	2	2	1	2	2	2	2	2	2	2	2	2	1
Cuticura	2	—	1	—	1	—	—	—	—	—	—	—	—
Deep Heat	6	5	6	6	3	6	5	4	4	2	2	2	—
Delrosa	—	2	2	—	—	—	—	—	—	—	—	—	—
Delsey	—	—	—	3	—	—	—	—	—	—	—	—	—
Eno Fruit Salt	2	2	2	2	2	2	2	2	2	2	2	2	—
Gon	4	2	2	2	1	1	1	1	3	1	1	—	—
Hedex	—	—	—	—	—	—	6	—	—	—	—	—	—
Horlicks	5	5	5	2	5	4	5	5	5	2	2	2	—
Kleenex	3	5	6	6	2	3	—	4	3	6	—	2	—
Lifeguard	—	—	—	—	3	—	2	—	—	2	—	—	—
Loxene hair cream	—	—	—	—	—	—	—	—	3	—	—	—	3
shampoo	—	—	—	—	—	—	—	—	—	—	—	—	3
Macleans tooth-paste	3	1	1	5	4	5	2	4	4	4	8	3	—
Milk of Magnesia	—	1	1	—	—	—	—	—	—	—	—	—	—
tablets	2	3	4	4	4	4	3	2	3	3	2	2	—
Panets	1	1	2	—	—	—	—	—	3	—	—	—	—
Penetrol inhalant	1	1	1	—	—	—	1	—	—	—	—	—	—
Rennies	3	3	3	3	3	3	3	3	—	3	3	3	—
Rinstead pastilles	1	1	2	1	1	2	1	—	1	—	—	—	—
Scotties	—	—	—	4	—	—	—	—	3	—	—	3	—
Silvikrin hair cream	2	3	2	4	2	4	4	1	3	2	6	—	—
shampoo	—	1	2	3	3	2	2	3	4	3	3	4	—
Vosene	1	1	1	2	1	1	1	1	—	1	1	2	—
VO-5 hair spray	4	4	5	2	—	—	—	—	—	—	—	—	—
Waft	3	3	4	1	1	1	1	1	—	4	3	2	—

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, January 8

COLCHESTER BRANCH, PHARMACEUTICAL SOCIETY, George hotel, Colchester, at 8 p.m. Mr. Anthony Buck (M.P. for Colchester) on "Topical Political Aspects of the National Health Service."

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Roxborough hotel, Harrow, at 8 p.m. Mr. P. Gates (Kodak, Ltd.), on "Super Slides and All That."

HENDON AND EDGWARE BRANCH, PHARMACEUTICAL SOCIETY, Hendon Hall hotel, Ashley Lane, London, N.W.4, at 8 p.m. Dr. H. E. S. Pearson on "The Problems of Coronary Disease."

LONDON SECTION AND SURFACE ACTIVITY GROUP, SOCIETY OF CHEMICAL INDUSTRY, 14 Belgrave Square, London, W.1, at 6.30 p.m. Professor R. M. Barrer (Imperial College) on "Some Features of Ion Exchange in Crystals" (illustrated).

NORTH METROPOLITAN BRANCH, NATIONAL PHARMACEUTICAL UNION, Beale's restaurant, Holloway Road, London, N.7, at 8 p.m. Annual meeting. Addresses by Messrs. A. Aldington and J. A. McIvor.

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, 64 St. James's Street, Nottingham, at 7.30 p.m. Chief Inspector T. R. Parkin (photographic department, Nottingham County Constabulary) on "Police Photography."

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Freedom Fields hospital, Greenbank, Plymouth, at 7.30 p.m. Refresher course. Mr. G. E. Walster on corticosteroids.

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Polygon hotel, Southampton, at 7.30 p.m. Address by Dr. T. Keith Morgan.

SOUTHPORT BRANCH, PHARMACEUTICAL SOCIETY, Royal hotel, Promenade, Southport, at 7.45 p.m. Film show.

Tuesday, January 9

FIFE BRANCH, PHARMACEUTICAL SOCIETY, Anthony's hotel, Kirkcaldy, at 7.30 p.m. Mr. G. Price on "A Review of Psychiatric Therapeutics."

GLASGOW PHARMACY CLUB, Craig's tea rooms, 453 Sauchiehall Street, Glasgow, C.2, at 7.30 p.m. Whist drive.

KEELE BRANCH, CHEMICAL SOCIETY, Chemistry department, University College of North Staffs, at 8.30 p.m. Professor G. Gee on "Polymers from Olefine Oxides."

LONDON SECTION, INSTITUTION OF THE RUBBER INDUSTRY, Royal Society of Tropical Medicine and Hygiene, 26 Portland Place, London, W.1, at 5.30 p.m. Address on "Recent Developments in Rubber Machinery."

SOUTH-EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, and SOUTH-EAST LONDON CHEMISTS' ASSOCIATION, Prince of Orange hotel, 189 Greenwich High Road, at 8 p.m. Detective Superintendent G. E. Salter (Metropolitan Police Scientific Laboratory) on "Scientific Aids to Crime Detection."

SOUTH SHIELDS PHARMACISTS' ASSOCIATION, Golden Lion hotel, South Shields, at 7.30 p.m. Demonstration of hair cosmetics by Rapidol, Ltd.

WEST MIDDLESEX BRANCH, PHARMACEUTICAL SOCIETY, Town Hall, Ealing Broadway, Ealing, W.5, at 8 p.m. Mr. G. R. A. Short (chief chemist, W. J. Bush & Co., Ltd.), on "Flavours and Colours in Medicines."

Wednesday, January 10

ABERDEEN BRANCH, CHEMICAL SOCIETY, chemistry department, Aberdeen University, at 8 p.m. Mr. A. O. Brooks on "Precision Balances: History, Development and Techniques." Film "The Balance and its Use."

BIRMINGHAM PHARMACEUTICAL ASSOCIATION, Botanical Gardens, Edgbaston, at 8 p.m. New Year carnival dance.

CHESTERFIELD BRANCH, PHARMACEUTICAL SOCIETY, Station hotel, at 8 p.m. Mr. A. D. Spencer (Boots Pure Drug Co., Ltd.), on "Designing a Modern Pharmacy."

GLASGOW AND WEST OF SCOTLAND BRANCH, PHARMACEUTICAL SOCIETY, Students' Union, Royal

College of Science and Technology, Glasgow, at 7.45 p.m. Todd lecture. Address by Professor Andrew Wilson (professor of pharmacology, Liverpool University) on "Teacher and Student."

LEICESTER BRANCH, PHARMACEUTICAL SOCIETY, Bell hotel, Leicester, at 7.30 p.m. Discussion on the report of the Committee on the General Practice of Pharmacy.

MANCHESTER PHARMACEUTICAL ASSOCIATION AND SALFORD BRANCH, PHARMACEUTICAL SOCIETY, Edinburgh suite, Belle Vue, Manchester, at 7.30 p.m. President's evening dinner and dance.

MICROBIOLOGY GROUP, SOCIETY OF CHEMICAL INDUSTRY and SOCIETY FOR APPLIED BIOLOGY, Royal School of Medicine, 1 Wimpole Street, London, W.1, at 2.15 p.m. Joint meeting on "The Effect of the Newer Forms of Packaging on the Storage Life of Various Foods."

MIDLANDS SECTION, SOCIETY FOR ANALYTICAL CHEMISTRY, Hills lecture theatre, Birmingham University, Edgbaston, Birmingham, 15, at 2.30 p.m. Symposium on "Developments in Gas Chromatography, as applied to Polymers."

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Dr. J. Yule Bogue (joint managing director, Imperial Chemical Industries, Ltd., pharmaceuticals division) on "The Organisation and Economics of Research in the Pharmaceutical Industry."

ROYAL SOCIETY OF ARTS, John Adam Street, Adelphi, London, W.C.2, at 2.30 p.m. Pope Memorial lecture. Dr. F. Hartley (director of research, The British Drug Houses, Ltd.), on "Modern British Drugs."

SOCIETY OF INSTRUMENT TECHNOLOGY, Manson House, 26 Portland Place, London, W.1, at 6.30 p.m. Mr. E. M. Grabbe on "A Review of Digital Computer Control Applications."

SWANSEA AND WEST GLAMORGAN BRANCH, PHARMACEUTICAL SOCIETY, Mackworth hotel café, Swansea, at 7.45 p.m. Mr. H. W. Tomski on "Economics of Pharmacy."

Thursday, January 11

AYRSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Eglinton Arms hotel, Irvine, at 7.30 p.m. Dr. R. de Soldenhoff on "The Cure is Worse Than the Disease."

BOURNEMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Grand hotel, Bournemouth, at 8 p.m. Business evening.

BRISTOL BRANCH, CHEMICAL SOCIETY, Chemistry department, Bristol University, at 6.30 p.m. Dr. F. D. M. Hocking on "Forensic Chemistry."

BRISTOL BRANCH, PHARMACEUTICAL SOCIETY, board room, Old Council House, Corn Street, Bristol, 1, at 7.30 p.m. Mr. D. A. Norton (head of Bristol School of Pharmacy) on "Medicines Legislation."

DURHAM COUNTY BRANCH, PHARMACEUTICAL SOCIETY, Three Tuns hotel, New Elvet, Durham, at 7.45 p.m. Address by Mr. H. Williams (a member of Council) entitled "Let's Talk Things Over."

FOLKESTONE AND DOVER, CANTERBURY AND EAST KENT and ISLE OF THANET BRANCHES, NATIONAL PHARMACEUTICAL UNION, Queen's hotel, Folkestone, at 7.45 p.m. Joint meeting. Address by Mr. A. Howells (chairman, N.P.U.).

HERTFORD BRANCH, PHARMACEUTICAL SOCIETY, Park Way restaurant, Welwyn Garden City, at 8 p.m. Annual buffet dance.

HOUNSLOW BRANCH, PHARMACEUTICAL SOCIETY, Sun hotel, Hanworth Road, Hounslow, at 8 p.m. Illustrated talk by Dr. Q. J. G. Hobson (consultant physician, West Middlesex Hospital) on "Treatment of Diabetes."

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Metropole hotel, Leeds, at 8 p.m. Mr. R. Levin on "Aspects of Development Within the Pharmaceutical Industry."

NEWCASTLE DISTRICT AND NORTHUMBERLAND BRANCH, PHARMACEUTICAL SOCIETY, King's College, Newcastle, at 7.30 p.m. Film show.

NORWICH BRANCH, PHARMACEUTICAL SOCIETY, Assembly House, Theatre Street, Norwich, at 7.30 p.m. Brains trust.

READING BRANCH, PHARMACEUTICAL SOCIETY, Liberal Club, Reading, at 8 p.m. Dr. E. J. Shellard (Chelsea School of Pharmacy), on "Impressions of Pharmacy in Poland."

REIGATE AND REDHILL PHARMACISTS' ASSOCIATION AND BRANCH, nurses' home, Redhill County Hospital, at 8 p.m. Mr. T. Powell (Branch chairman) on "Travelogue and Pharmaceutical Scenes in the U.S.A."

Friday, January 12

DARTFORD BRANCH, PHARMACEUTICAL SOCIETY, Wellcome Club, High Street, Dartford, at 8 p.m. Mr. Sydney Irving (M.P. for Dartford) on "The Common Market."

EXETER BRANCH, PHARMACEUTICAL SOCIETY, Mr. A. R. G. Chamings (a member of Council) on "The Interdependence of the Pharmacist and the Doctor."

HULL CHEMISTS' ASSOCIATION AND BRANCH, Royal Station hotel, at 8 p.m. Mr. T. M. Rankin (Smith & Nephew Pharmaceuticals, Ltd.), on "Winemaking."

LONDON SECTION, SOCIETY OF CHEMICAL INDUSTRY, Assembly Rooms, Royal Commonwealth Society, Northumberland Avenue, London, S.W.1, at 6.30 p.m. Social film evening.

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, 2 Bluecoat Chambers, School Lane, Liverpool, 1, at 7 p.m. Social evening.

SUNDERLAND BRANCH, PHARMACEUTICAL SOCIETY, West Park College of Further Education at 7.30 p.m. Sir Mortimer Wheeler on "Digging up the Past."

WESTERN SECTION, SOCIETY FOR ANALYTICAL CHEMISTRY, University College, Cathays Park, Cardiff, at 6 p.m. Annual meeting. At 7 p.m. Dr. G. V. James on "Radioactivity Measurements in Monmouthshire."

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED
From the "Official Journal (Patents)," November 28, 1961

Preparation of hexafluorodiethyl ether and medicinal compositions containing it. Air Reduction Co., Inc. 889,282.

Steroids and the manufacture thereof. Upjohn Co. 889,330.

Phenylpiperazinylalkyl esters and amides. Miles Laboratories, Inc. 889,223.

Iodine-containing benzoic acid esters. Osterreichische Stickstoffwerke, A.G. 889,339.

Penicillins. Chas. Pfizer & Co., Inc. 889,231.

Phenyl-diazines and a process for their manufacture. CIBA, Ltd. 889,317.

Quinone derivatives and process for their manufacture. CIBA, Ltd. 889,514.

Low-toxic surface anæsthetics. Bofors, A.B. 889,225.

Quinoline compounds. CIBA, Ltd. 889,262.

Tapeworm control agents. Farbenfabriken Bayer, A.G. 889,377.

Pyridine derivatives. National Research Development Corporation. 889,345.

Cyclic organic phosphorus compounds. Hooker Chemical Corporation. 889,338.

Process for preparing O,O¹-Dihydroxybenzophenones. American Cyanamid Co. 889,366.

Omega-carboxyalkylpenicillins. Fondazione Emanuele Paterno, G. Morpurgo and G. S. Crescenzi. 889,228.

Triazine compounds and process for preparation. American Cyanamid Co. 889,292.

Stable esters of vitamin-A and the manufacture thereof. F. Hoffmann-La Roche & Co., A.G. 889,266.

Shampoo compositions. Gillette Industries, Ltd. 889,327.

Methylated steroidal lactones. The British Drug Houses, Ltd. 889,407-408.

17-Carboxyalkylated 3-oxygenated 6-methyl-androsten-17-ol lactones and intermediates therefore. G. D. Searle & Co. 889,309.

Steroid compounds. G. D. Searle & Co. 889,310.

Androstenol derivatives. G. D. Searle & Co. 889,311.

Production of hydrocortisone. Soc. Farmaceutici Italia. 889,378.

Derivatives of 11α-hydroxy (and alkoxy)-11,19-epoxy-androstanes. G. D. Searle & Co. 889,379.

Insecticidal compositions. E. St. J. Foti. 889,275.

Hair-grooming compositions. General Aniline and Film Corporation. 889,291.

British patent specifications are obtainable (price 4s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION
From the "Trade Marks Journal," December 20, 1961

For liquid detergents, not for use in industrial or manufacturing processes, and washing powders (3)
EGA, 824,849, by Co-operative Wholesale Society, Ltd., Manchester.

For pharmaceutical enzyme preparations (5)
PROLASE, 809,815, by Travenol International, Inc., Lincoln Avenue, Illinois, U.S.A.

For pharmaceutical preparations for the treatment of stomach disorders (5)
Q-KUM, 812,408, by Hugo Morrison, Coleraine, Londonderry, Northern Ireland.

For all goods (5)
Device, B820,260, DIOTROXINE, 825,001, by Glaxo Laboratories, Ltd., Greenford, Middlesex. KELFERON, 824,742, by M.C.P. Pure Drugs, Ltd., London, W.C.2. NEMEX, 824,769, by Cooper, McDougall & Robertson, Ltd., Berkhamsted, Herts. MUTABON, 825,934, by Schering Corporation, Bloomfield, New Jersey, U.S.A.

For veterinary preparations (5)
OBLOIDS, 822,136, by International Serum Co., Ltd., London, N.W.7.

For sanitary and veterinary preparations and disinfectants (5)
EPICLENE, 824,593, by Parkinsons, Ltd., Burnley, Lancs.

For photographic apparatus and instruments (9)
VICTRON, 813,819, by Ronald Victor Lawson, Brandford, Yorks.

For surgical, medical, dental and veterinary instruments having a cutting edge, and parts (10)
SWORD, 819,185, by Wilkinson Sword, Ltd., London, S.W.1.

From the "Trade Marks Journal," December 28, 1961

For cosmetics, nail-polish, nail-polish-removing preparations, non-medicated toilet preparations, perfumes and perfumed soaps (3)
GAL, 812,759, by Gala of London, Ltd., London, W.1, and Surbiton, Surrey.

For liquid detergents for domestic use (3)
NUBRITE, B815,221, by Nubrite Sales Co., Newcastle, Staffs.

For medicated shampoos for use on animals (3)
FLEAVOL, 818,472, by Smith Kline & French Laboratories, Ltd., Welwyn Garden City, Herts.

For non-medicated toilet preparations, soaps, perfumes, cosmetics, essential oils, dentifrices and hair lotions, all for men (3)
SWANDOWN MAN FASHION, 822,063, by Henry Tetlow Co., Ltd., London, W.10.

CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals

INFLUENZA VACCINE. Prophylactic use of, in patients with chronic bronchitis. *Lancet*, December 30, 1961.

LIGNOCAINE. Allergy to. *Lancet*, December 30, 1961.

METHOSERPIDINE. Clinical trial of, in general practice. *Brit. med. J.*, December 30, 1961.

PROPATYLNITRATE. Clinical evaluation of, in angina pectoris. *Brit. med. J.*, December 30, 1961.

PROPATYLNITRATE AND PENTAERYTHRITOL TETRANITRATE. Failure of, to prevent attacks of angina pectoris. *Brit. med. J.*, December 30, 1961.

QUININE sensitivity. *Brit. med. J.*, December 30, 1961.

RADIATION INJURY. Therapeutic uses of. *Chron. Wld. hlth. Org.*, December 1961.

ASARONE and B-ASARONE. Pharmacodynamical effects of. *Nature*, December 30, 1961.

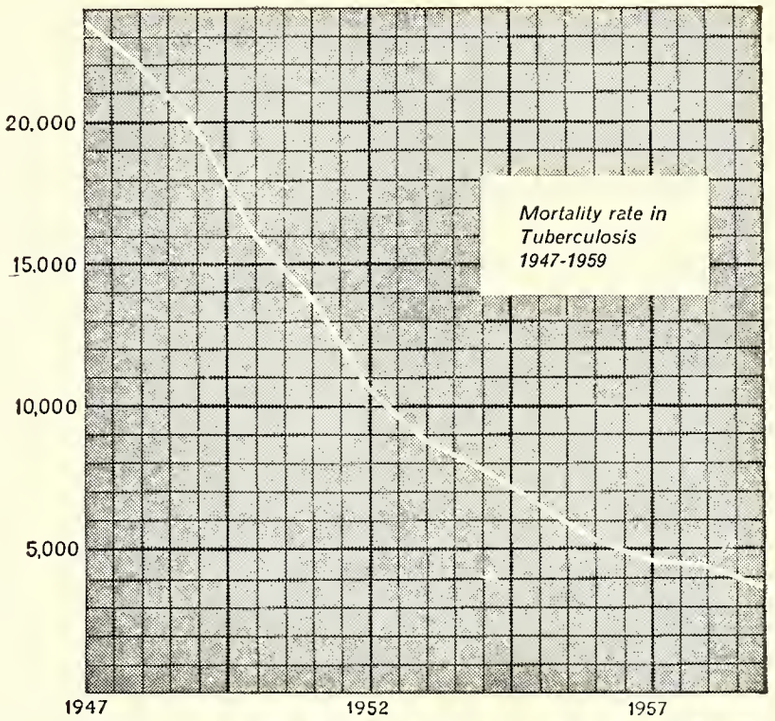
TESTOSTERONE. A carcinogenic action of, provoking uterine tumours in mice. *Nature*, December 30, 1961.

POULTRY DISEASES. The clinical diagnosis of. *Vet. Rec.*, December 30, 1961.

POULTRY DISEASE. The control and prevention of. *Vet. Rec.*, December 30, 1961.

CEDRELONE. The structure of. *Proc. chem. Soc.*, December 1961.

TRIAZANAPHTHALENES. Synthesis of three new. *Proc. chem. Soc.*, December 1961.



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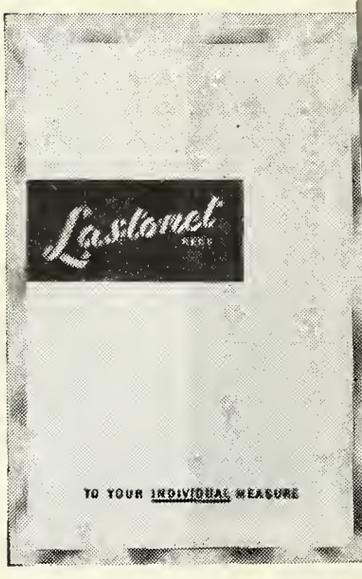
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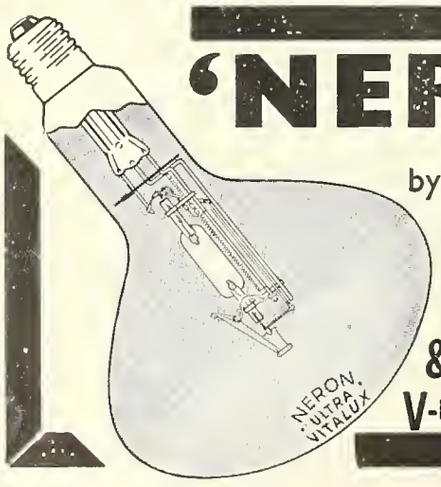
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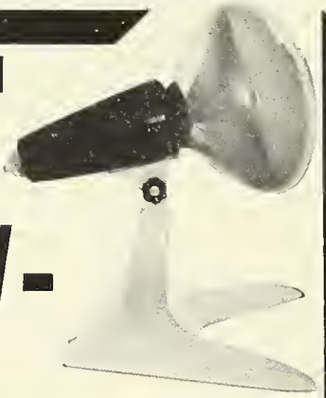
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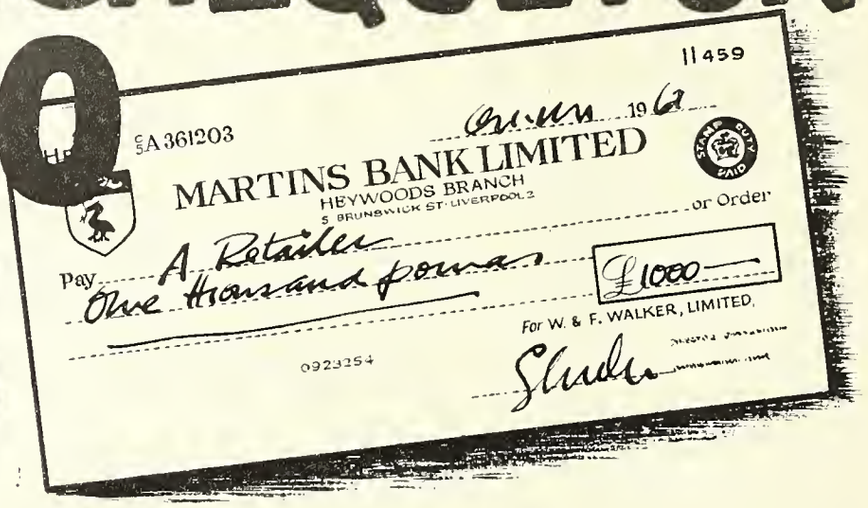
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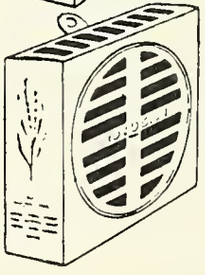
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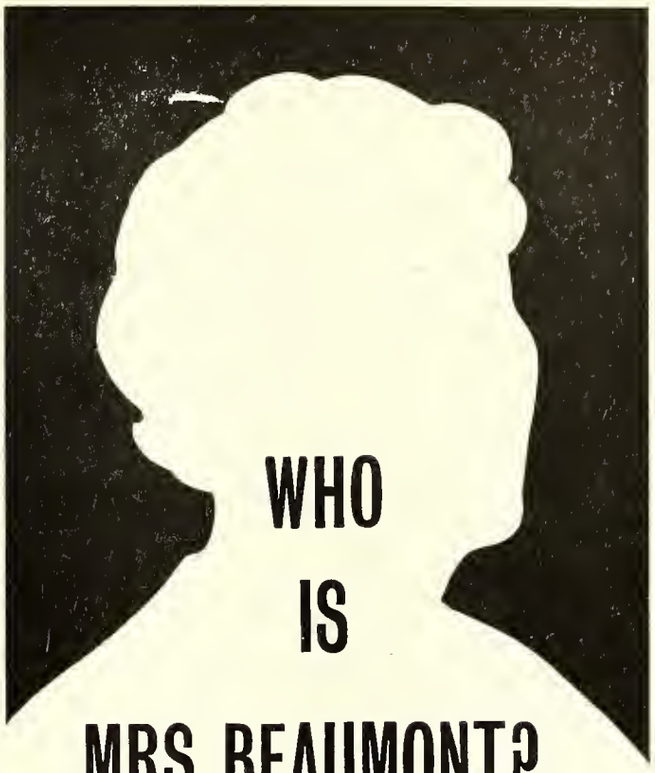
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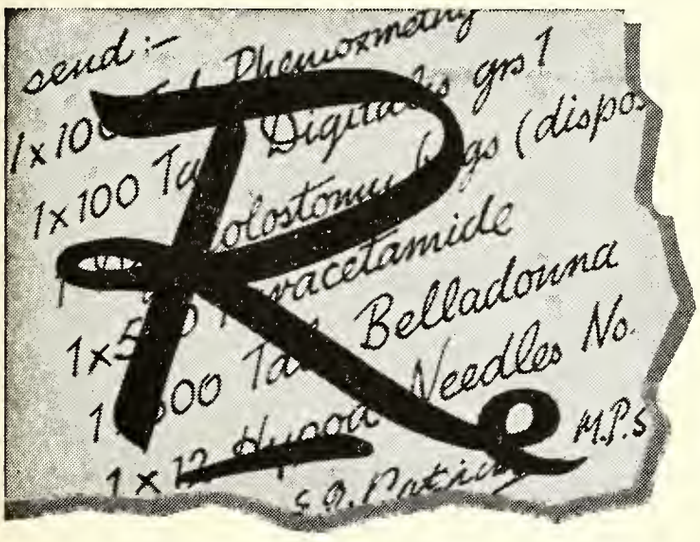
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See page 13



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Modern dispensing practice demands the support of an understanding and efficient wholesale service. As pharmacists ourselves we know that orders for drugs, ethicals and surgical items must receive the same care, accuracy and promptitude that is given by our Retail and Hospital colleagues to doctors' prescriptions.

We supply no retail shops other than registered pharmacies

Macrom House, Romford, Essex (Tel: ROmford 46021)

MACARTHYS LIMITED

also at Lee, S.E.12 (Tel: KIPling 5555): Willesden, N.W.10 (Tel: WILlesden 1200), Pollard Street, Ancoats, Manchester, 4. (Tel: ARDwick 5131) and Shuna Place, Ruchill, Glasgow, N.W. (Tel: MARyhill 5221).

Halina
EQUIPMENT
for QUICK sales

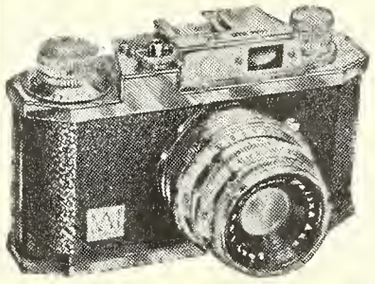
Halina

35 mm. TABLE VIEWER



- ★ Battery Operated.
- ★ The extra large, precision ground twin optically polished lenses are made from the world-famous Chance Pilkington Optical Glass giving perfect enlargements.
- ★ Large magnification 2⅓ times.
- ★ Lenses can be taken out for cleaning purposes, a unique feature.

39/6 Two UII Batteries 10d extra

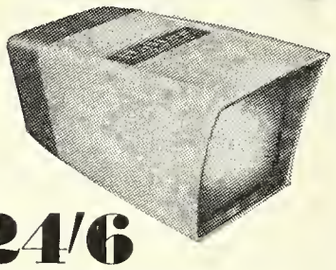


Halina
35X

- ★ All metal precision 35 mm.
- ★ f/3.5/45 mm. colour corrected lens.
- ★ Synchronised shutter up to 1/200th sec.
- ★ Coupled film Transport and exposure counter.

IDEAL FOR BLACK/WHITE COLOUR

£7-15-5 Ever Ready case £1/8/6



Halina AMBASSADOR

DUAL PURPOSE VIEWER

- ★ Battery Operated or remove base and use as a Daylight viewer.
- ★ Accepts all 2 x 2in. slides.
- ★ Large magnification.
- ★ Overall Illumination—NO HOT SPOT.

24/6

BATTERIES 1/- EXTRA

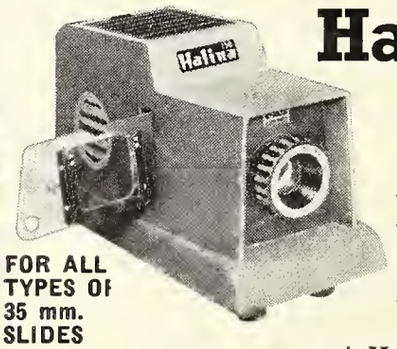


Halina A1

- ★ TWO CAMERAS IN ONE
- ★ All metal.
- ★ 2¼×2¼ and 35 mm. on 120 film.
- ★ f/3.5/80 mm. colour corrected lens.
- ★ Synchronised shutter speeded up to 1/100th sec.
- ★ Coupled front lens focusing.

£10-12-11

Leather Ever Ready case £2/7/8



Halina 150

2" x 2" STILL PROJECTOR

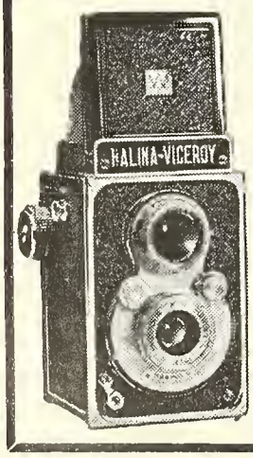
FOR ALL TYPES OF 35 mm. SLIDES

- ★ 150 watt.
- ★ f/3.5/80mm. hard-coated colour corrected lens.
- ★ Double condensers.
- ★ Helical focusing.
- ★ All metal.
- ★ Heat absorbing filter.
- ★ Accepts all 2×2in. slides.

£8-19-6

150 watt lamp 21/9
Carrying Case 25/4

Can be converted to 300 watt projector in a few minutes by fitting the HALINA all metal Fanbase. £5-5-0

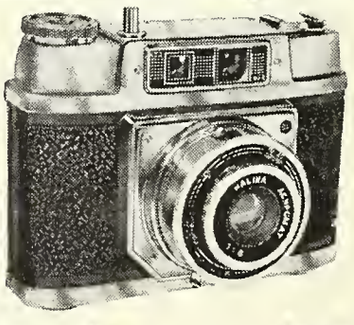


Halina VICEROY

- ★ TWO CAMERAS IN ONE
- ★ All metal.
- ★ 2¼×2¼ and 35 mm. on 120 film
- ★ Double meniscus f/8 lens
- ★ Actual size ground glass reflex viewfinder.
- ★ Synchronised for flash.

£3-19-10

Ever Ready Case 18/3



Halina
6—4
TWO-IN-ONE CAMERA

2¼×2¼ or 1⅝×1⅝

- ★ ALL METAL
- ★ Achromat lens f/8.
- ★ Front lens focusing.
- ★ Apertures 8-11-16.
- ★ Double exposure prevention.

£3-19-10

Ever Ready Case £1-10-4 with detachable back.

J. J. SILBER LTD
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Vitamin D3 Crystalline

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SELLING AGENT. . .

C.T. BOWRING & Co. [Fish Oils] Ltd.

14/18 BLACKSTOCK STREET, LIVERPOOL, 3, ENGLAND



WHO IS MRS. KINSELLA?

see page **13**

DUNCAN PRODUCTS

made by pharmacists for pharmacists, include

haemamol

an antiseptic, emollient and analgesic cream, combining the astringent and soothing properties of hamamelis and zinc oxide and the analgesic effect of chlorbutol. 'Haemamol' gives quick relief in haemorrhoids, abrasions and skin irritations.

Sells at 2s. 6½d. per tube inc. PT.
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The M. + P. fleet of delivery vans covers the whole North-East from Tweedside to Wearside, and beyond, with daily deliveries—*TWICE DAILY in some areas.*

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MYSORE GOVERNMENT MYSOF GUARANTEED PURE SANDALWOOD OIL



WHO
IS
MRS. ROBERTS?

See page 13

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Your Beatson Medicals come to you clean in sealed cartons packed as soon as they are cool enough. You can rely on Beatson Medicals being clean when you open the cartons.



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MB5







THEY'VE HELPED TO BOOST SALES OF BENGERS BY 60%

(SO FAR)

Mrs. Beaumont, Mrs. Kinsella and Mrs. Roberts are just three of the many British housewives who have benefited from Bengers and whose stories in the national press are creating a great new demand for Bengers. The proof?—in three years sales of Bengers have rocketed by 60 per cent.

Bigger sales than ever in 1962

—AND HERE'S WHY:—

- All-out merchandising and sales campaign, supported by eye-catching display material, starts this month.
- Heaviest-ever advertising in the history of the product is appearing throughout the winter in the national daily press and women's magazines.

AND NOW...

...THE BONUS OFFER!

A really generous display bonus ranging between 17% and 25% is being offered to all chemists, starting at a minimum order of one dozen ½ lb. tins. The Benger representative will be calling to give you full details of this incentive bonus, and supply you with first-class display material, as illustrated opposite.



A 60% sales increase in three years!!! That's not the record of a 'back shelf' product. So let's get Bengers on display and help it to move even faster.

BENGERS

for sleeplessness, loss of appetite, overstrain, sickness, convalescence and general nourishment.

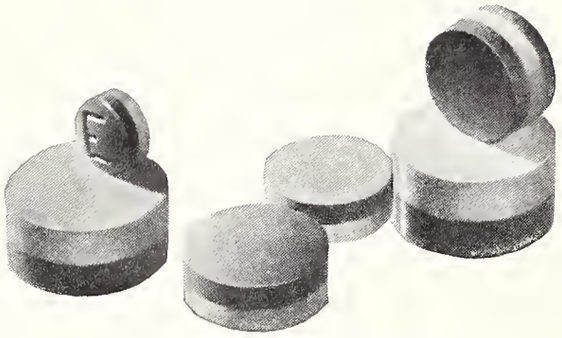
UNIQUE + DISPLAY UNITS

that bring *proved* national advertising right into your shop



These feature, as the main part of the display, the actual advertisements that are proving so highly effective in creating a new demand for Bengers.

BENGER BENGER LABORATORIES LIMITED • HOLMES CHAPEL • CHESHIRE



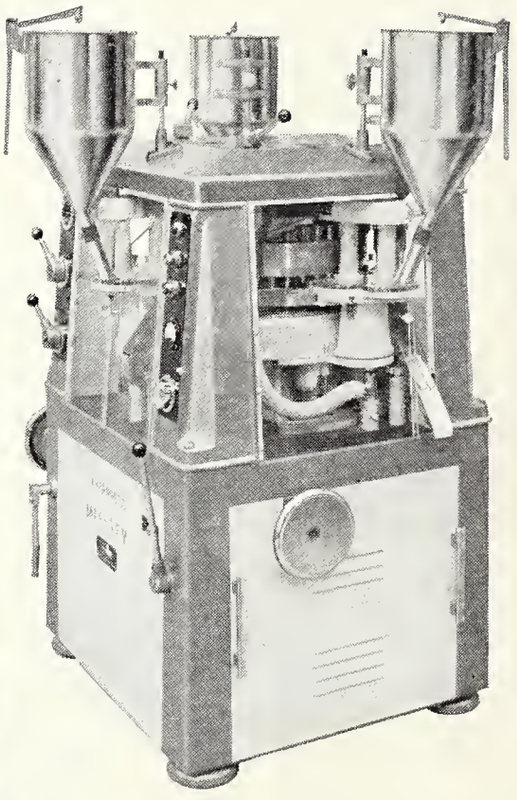
TABLET TALK

The Manesty Layerpress is an entirely new Rotary Tablet Machine specially designed for the production of high quality two or three layer tablets, or normal single layer tablets. It is made in two models—the '47' and the '39'. The '47' model makes tablets with a maximum diameter of 7/16″ and has an output of 420-1500 per minute. The '39' model makes tablets of up to $\frac{5}{8}$″ diameter and its output is 350-1250 per minute. Both machines use Manesty 'B' type punches and dies.

Clean separation between each tablet layer is achieved by the pre-compression units which have built-in overload protection and separate controls for both thickness and pressure of layer. The final pressure is taken through large diameter, adjustable upper and lower pressure rolls coupled by a patented overload mechanism.

Accurate control of weight is maintained by three unique rotary feeders in conjunction with micrometer adjustments for depth of fill. An overspill feature on all three layers ejects excess powder back into the feeder, thus keeping the die plate free from powder and preventing granules intermixing. Ejection of single and double layers for sampling and weight checking can be carried out without stopping the machine.

The Manesty 'Layerpress' is beautifully designed and built for a lifetime of service. Our engineers will be glad to co-operate with you in solving your tableting problems and we'd be pleased to send you further details of this and the full range of Manesty Machines. Why not drop us a line?





MANESTY LAYERPRESS

MANESTY

MANESTY MACHINES LIMITED, SPEKE, LIVERPOOL, 24. *Telephone : Hunts Cross 1972. Telegrams : Manesty, Liverpool, 24*

TABLET MACHINES · PUNCHES & DIES · MIXERS · COATING PANS · DRUG MILLS · DRYING OVENS · AUTOMATIC WATER STILLS · COMMINUTING MACHINES



COUGH RELIEF at the right time for hours at a time

PHOLTEX

up to ten hours relief from one teaspoonful through ion-exchange release

hours of relief from one dose

because Pholtex contains *pholcodine* and *phenyltoloxamine* as ion-exchange resin complexes to give smooth and prolonged effect — up to ten hours in many cases.

more complete relief of unproductive cough

because the cough depressant action of pholcodine is potentiated and reinforced by the antihistaminic and antispasmodic activity of phenyltoloxamine.

economy of treatment

because a 2 oz. bottle of Pholtex contains sixteen doses enough for one week's treatment.

dosage

One teaspoonful (4 ml.) at minimum intervals of eight hours.

composition

One teaspoonful (4 ml.) contains pholcodine 15 mg. and phenyltoloxamine 10 mg. as resin complexes in a pleasantly flavoured thixotropic vehicle.

Price to chemist

2 fl oz. 5/4
20 fl. oz. 49/4 (dispensing pack)

RIKER

Pholtex registered trade mark

RIKER LABORATORIES
DIVISION OF VANTOREX LIMITED
LOUGHBOROUGH LEICESTERSHIRE

Illustration by courtesy 'Radio Times, Hulton Picture Library'

Ph 15 (T)



No. 1 Cabinet of six styles of new Super-Hylite combs, assorted colou

NOW

Super-Hylite

GUARANTEED FOR 2 YEARS

In a wonderful new material, tough but so attractive, these superb hair combs retail in the quick-selling price range from only 9d. to 1/6d.

Individually packed and ready priced, Super-Hylite come in this elegant crystal cabinet showing a range of best selling styles.

BUY ON BONUS

ORDER FROM YOUR WHOLESALER NOW

E. R. HOLLOWAY SALES LTD. (WHOLESALE ONLY).
BESSEMER ROAD, WELWYN GARDEN CITY, HERTS.
Telephone: Welwyn Garden 24444

BARNET COMBS SELL ON SIGHT

In just a few square inches of your counter, each Barnet Cabinet shows a range of combs to sell themselves — easy to handle and profitable. This way you add an impulse sale to other purchases, with no effort but taking the money! And remember that every time YOU REFILL WITH BARNET COMBS YOU MAKE EXTRA PROFIT.

Choose from eight cabinets in the Barnet range, tailored to suit your business. Your wholesaler will give you immediate service.

See examples below

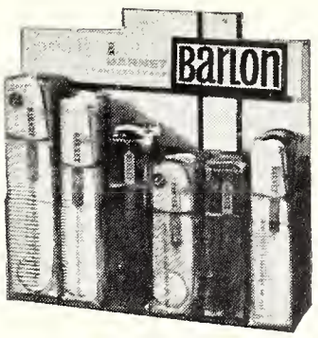
NEW COMB BY **Barnet**



NO. 5 NYLON
GUARANTEED 10 YEARS
Six styles assorted colours retailing 1/4d. to 2/3d.

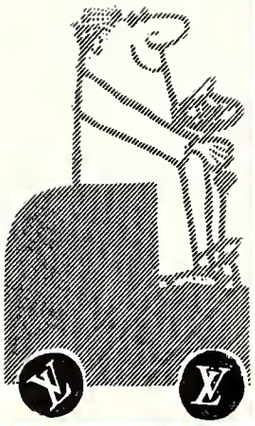


NO. 7 NYLON
GUARANTEED 10 YEARS
4 doz. black and shell pocket and bag combs, 1/4d. to 1/8d.



NO. 2 BARLON
GUARANTEED 1 YEAR
Six styles assorted colours retailing 6d. to 1/-.

Vitamins in Bulk



Natural & Synthetic Vitamin A
Vitamin B_1 (Aneurine Hydrochloride B.P.)
Vitamin B_2 (Riboflavine B.P.)
Vitamin B_6 (Pyridoxine Hydrochloride B.P.C./U.S.P.)
Vitamin B_{12} (Cyanocobalamin B.P.)
DL. Calcium Pantothenate U.S.P.
Vitamin C (Ascorbic Acid B.P.)
Vitamin D_2 (Calciferol B.P./U.S.P.)
Vitamin D_3 (Oily Concentrate)
Natural Vitamin E
(d-Alpha Tocopheryl Acetate)
(d-Alpha Tocopheryl Acid Succinate)
(Mixed Tocopherols)
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Folic Acid B.P./U.S.P.
Inositol
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Upper Mall, London, W.6. *Phone:* Riverside 5001
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Hibitane

TRADE MARK

CHLORHEXIDINE *

is the modern antiseptic

"We rely on the antibacterial properties of chlorhexidine as our first line of defence against infection."
Lancet (1957), i, 862

***CHLORHEXIDINE** was discovered in the I.C.I. Research Laboratories. It represented a major break-through in the field of antiseptics, and was selected from many hundreds of compounds specially synthesised as antibacterial agents. Since its introduction seven years ago this powerful antibacterial agent of an entirely new chemical type has already been the subject of more than 60 published papers in the medical and veterinary press in this country alone. It is described in the British Pharmacopoeia 1961.

The exceptional value of chlorhexidine as an antiseptic is now well established. It is effective against a wide range of bacteria and is highly active against both Gram-positive and Gram-negative organisms even under the most stringent conditions. The quotation given above is typical of the conclusions reached by those who have studied its activity and place in modern aseptic disciplines.

CHLORHEXIDINE is available in a wide range of preparations sold under the registered trade mark 'Hibitane'.

**B.P. Monographs Chlorhexidine Gluconate Solution and Chlorhexidine Hydrochloride*

Hibitane **FOR EFFECTIVE AND SAFE ANTISEPSIS**

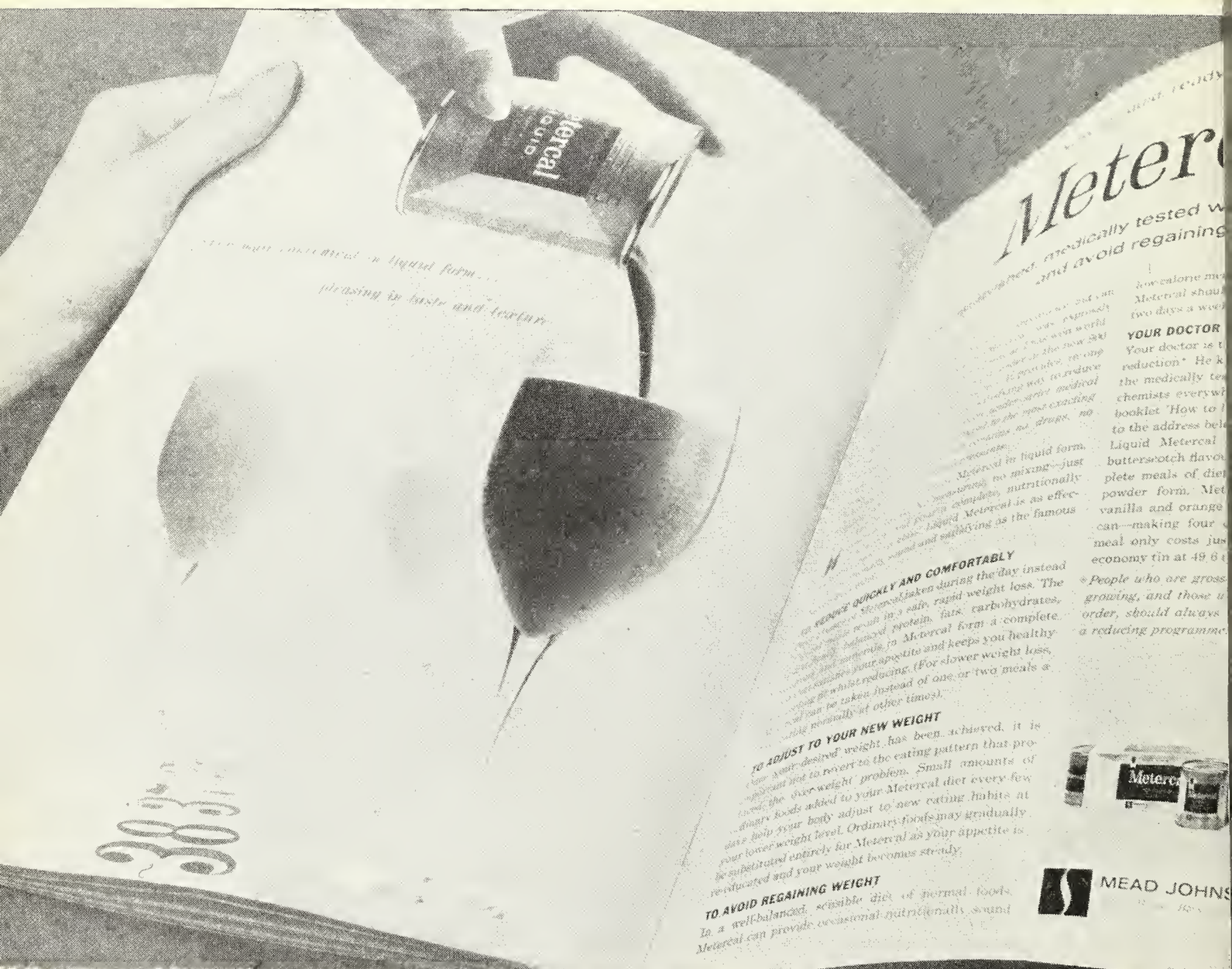
IMPERIAL CHEMICAL INDUSTRIES LIMITED PHARMACEUTICALS DIVISION WILMSLOW CHESHIRE

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ICI

Millions more weight-conscious customer

Meterca



Full colour advertising—198½ million opportunities to se

This double-page spread and pages in full colour w appear repeatedly in mass-circulation weeklies and leadi monthlies...with dominating spaces in Sunday new papers. A really powerful campaign!

will see this colour advertising for

he established

eader in 900-calorie diets



ree consumer leaflets bring you new and repeat business!
ales-making leaflet weight-control guide, in stick-on spenser or showcard dispenser, from our representative the address on the right. Generous profit margins mean letercal *earns* its display space!

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Morris House · Berkeley Square · London W1

Linc-o-Lin



four aids to beauty



Linc-o-Lin BEER SHAMPOO

This popular shampoo highlights and sets the hair in one application. Obtainable in four fascinating polythene packs.

Box of 1 doz. BABY BARRELS
(containing four shampoos) **15/-** plus **4/1½** P. Tax. (Retail **2/6** each).

Box of 3 doz. SINGLE SACHETS
16/8 plus **4/7** P. Tax (Retail **10½d.** each).

Box of 3 doz. TWIN PACKS
(2 shampoos—his and hers) **23/4** plus **6/5** P. Tax. (Retail **1/2** each).

Box of 6 'MAGNUM' PACKS
(containing over 20 Shampoos) **16/8** plus **4/7** P. Tax. (Retail **4/11** each).

Linc-o-Lin UNIVERSAL HAIR TREATMENT

A wonderful conditioner which performs several functions in one application—stops breakage and splitting, reconditions hair and scalp, controls dandruff, restores hair damaged by excessive cold waves and bleaching, adds life and lustre to the hair. People who try it once use it always.

Box of 1 doz. 2 oz. Bottles
15/- plus **8/3** P. Tax (Retail **2/9** each).



Linc-o-Lin HAIR-DO
PLASTIC SET

A product which outdates and overshadows lacquer, keeps hair immaculate and soft. Delicately perfumed, packed in attractive aerosol containers.

Box of ½ doz. Containers **23/-** plus **12/8** P. Tax. (Retail **7/11** each).

OBTAINABLE
FROM YOUR USUAL WHOLESALER OR DIRECT FROM MANUFACTURERS

A full list of products with prices and order form available on request.

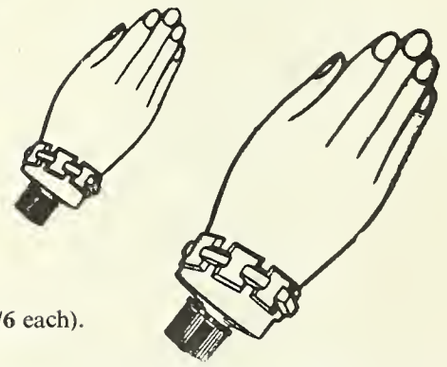
Linc-o-Lin INSTANT HANDCREAM

Definite results seen after the first application. In dainty hand-shaped containers.

Box of 1 doz. 4 oz. PACKS
£1.10.0 plus **16/6** P. Tax. (Retail **5/6** each).

Box of 3 doz. 1 oz. PACKS
£1.6.8 plus **14/8** P. Tax. (Retail **1/9** each).

Box of 1 doz. 4 oz. REFILLS
18/4 plus **10/1** P. Tax. (Retail **3/11** each).



★ Export enquiries to:
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Ramillies Buildings, Hill's Place
Oxford Street, London, W.1

Linc-o-Lin PRODUCTS

LINCOLN CHEMICALS LIMITED

Administrative Offices : **14A NEW BROADWAY, LONDON W.5. Tel : EALING 8841 (3 lines)**



When you order
LENTE *insulins -*
specify 'WELLCOME'
LENTE *insulins*

The 'Wellcome' I.Z.S. range includes LENTE, SEMILENTE, and ULTRALENTE insulins, which, like all other 'Wellcome' Insulins, are made and tested throughout at the Wellcome Chemical Works, Dartford.
Other 'Wellcome' Insulins are SOLUBLE, PROTAMINE ZINC, GLOBIN ZINC, and ISOPHANE.

LENTE, SEMILENTE and ULTRALENTE are trade marks

specify

'WELLCOME' BRAND
INSULINS

BURROUGHS WELLCOME & CO.
(The Wellcome Foundation Ltd.) LONDON

G

HALEX introduce the sensational twin toothbrush



NEW and sensational — that's the Halex Twin Toothbrush! Twin texture, twin colour head, twin colour handle.

The Halex Twin has **two** kinds of nylon tuft. Harder tufts in the centre for really effective cleaning power. Softer outer tufts to give lively but gentle gum massage. It's the dual-purpose toothbrush your customers have always wanted!

The twin handle's half white, half coloured—your customers have a choice of 4 appealing colours. And there's a brilliant new sales-compelling pack. Retail price, only **2/6d.** The Halex Twin Toothbrush comes in a colourful counter display pack of one dozen in assorted colours.

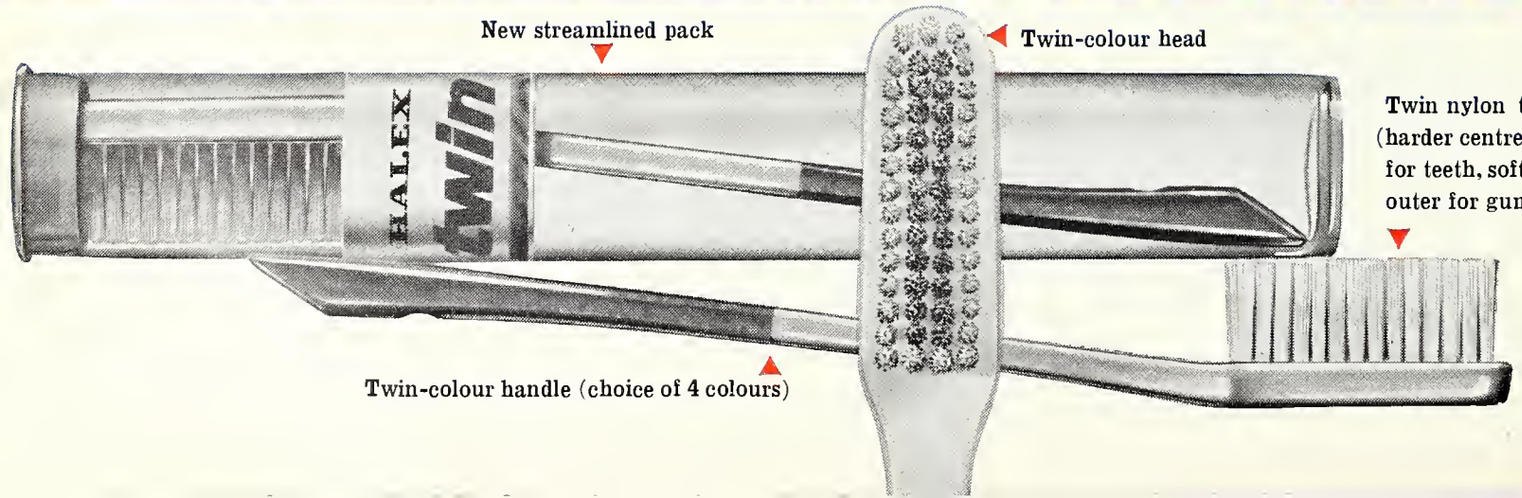
Sales tip:

Do as so many dentists recommend —advise your customers to have **two** toothbrushes. One for the morning, another for the evening. You'll sell twice as many Halex Twins that way!

Special bonus terms!

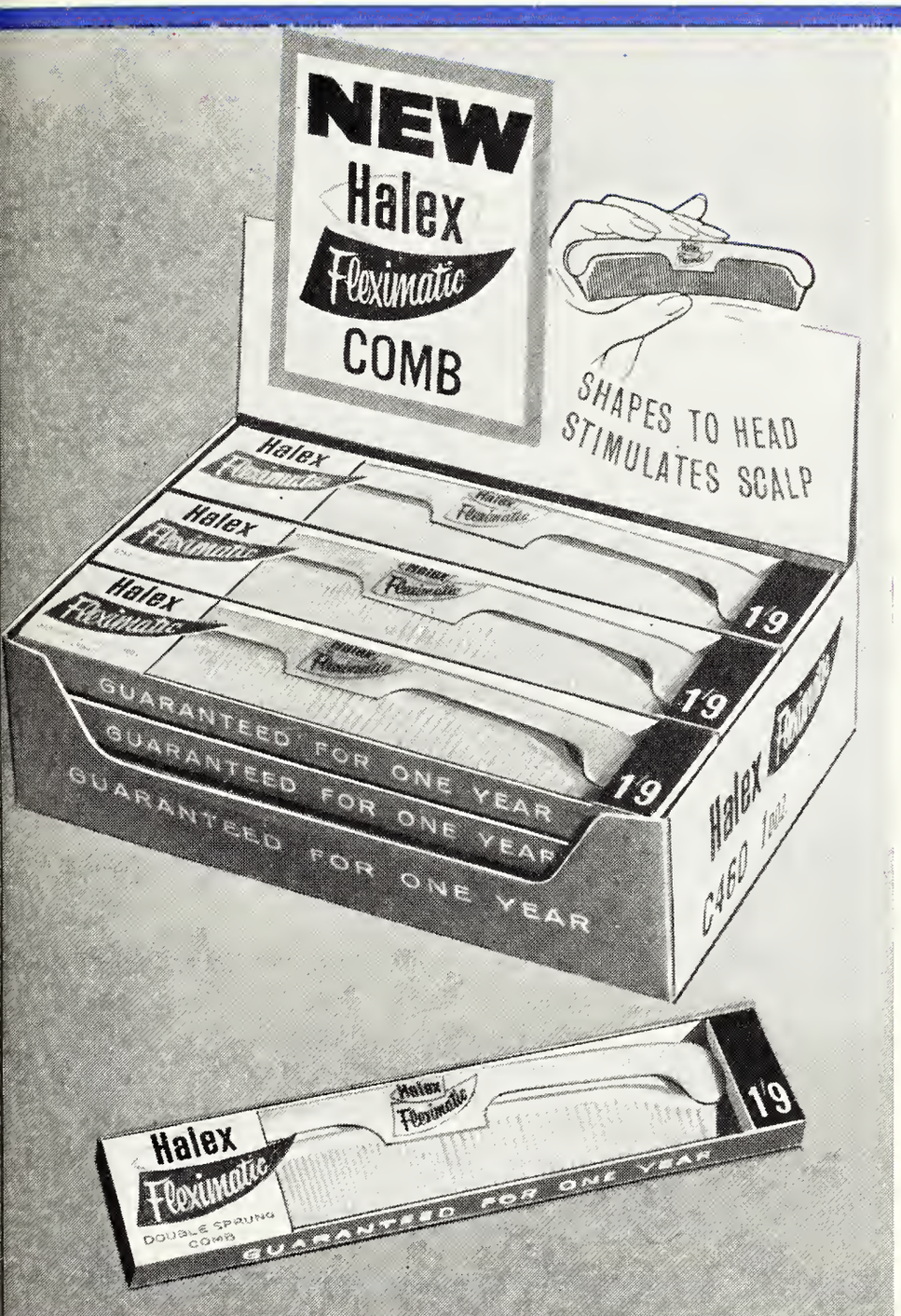
When you order 6 dozen Halex Toothbrushes you get 14 to the dozen. When you order 12 dozen Halex Toothbrushes you get 15 to the dozen. These special bonus terms are open from January 1st to March 31st 1962, and apply to the full range of Halex Toothbrushes in a variety of sales-winning FREE counter-dispensers.

SEE YOUR HALEX WHOLESALER NOW!



News! the HALEX Fleximatic

Biggest advance in combs in 1000 years



BIG claim! But it's true! The Halex 'Fleximatic' **is** the first really new idea in combs for 1,000 years. A comb with a spring action! Stimulating, flexible, **springy,** the Halex 'Fleximatic' massages while conforming to the shape of the head. Your customers (especially the younger ones) will really go for it!

Display packed in assorted colours, each comb has the distinctive 'Fleximatic' gold insignia. In addition, the strong yet supple Halex 'Fleximatic' is guaranteed for a whole year against breakage in normal use. Retail price, only **1/9d.**

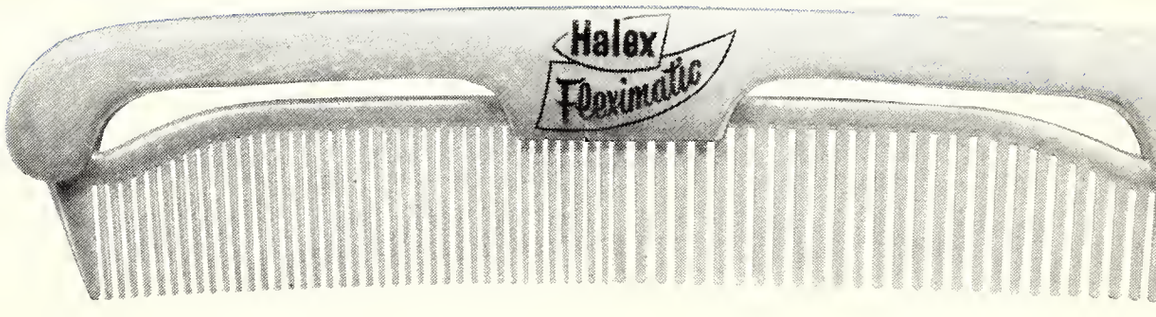
Stock up with the wonderful Halex 'Fleximatic'—in addition to its delightful individual pack, a bright and attractive counter display is supplied with each dozen.

Special bonus offer too!

When you order 6 dozen Halex Combs you get 13 to the dozen. When you order 12 dozen Halex Combs you get 14 to the dozen. The special bonus terms are open from January 1st to March 31st 1962, and apply to the full range of Halex Combs. Remember, too, there's a Halex range of striking FREE counter dispensers.

SEE YOUR HALEX WHOLESALER NOW!

- Spring action
- Shapes to the head
- Distinctive gold insignia
- Fast-selling colour assortment
- Guaranteed for one year



HALEX (A Division of the British Xylonite Co., Ltd.) Highams Park, London, E.4

new

topical corticosteroid



provides superior antipruritic and anti-inflammatory activity

---

Steroid-antibiotic combination

'DRENISON' with NEOMYCIN

Particularly useful in steroid-responsive dermatoses complicated by potential or actual skin infections.

Availability: 'Drenison' and 'Drenison' with Neomycin are available in both a cosmetically acceptable vanishing cream and a hydrophilic ointment base, in tubes of 5Gm. and 15Gm.

Lilly ELI LILLY AND COMPANY LIMITED
BASINGSTOKE ENGLAND

VACCO de luxe BONUS PACK offers you EXTRA SALES and EXTRA PROFIT



FIVE PER CENT BONUS ON THIS PACK

RETAILS at £6.19.2 *(inc. P.T.)*

15 Vacco de luxe vacuum flasks.
5 Vacco de luxe spare cups.
Price to Retailer **£4.19.11.** *(Plus. P.T. 13s. 0d.)*

Offer applicable in U.K. only for delivery 1st Jan.—31st May 1962

ONLY the new **VACCO** de luxe vacuum flask offers you so many **EXTRA—SALES—MAKING** features

* Striking streamlined shape
* Easy-clean rustless plastic casing
* Will not dent or chip
* Snap-on cup
* Delightful colours
* Screw-on, leakproof stopper

Vacco REGD. de luxe VACUUM FLASK

Available in Standard size: 16 fl. oz. List item: Model V.L.P.

RETAILS AT ONLY 8/11

Contact your wholesaler **NOW** or write to:

VACCO LIMITED, GROSVENOR GARDENS HOUSE, LONDON S.W.1. Tel: VICtoria 8785.

Edible Bone Phosphate

Full particulars, samples and prices from

Calfos Ltd.

Berkshire House, 168/173 High Holborn, W.C.1

Telephone: Temple Bar 7777



four good reasons why you should stock GONNE

- **A WELL PROVEN AND POWERFUL FORMULA ENSURES REPEAT SALES**
- **SALES PROMOTED BY ADVERTISING IN THE NATIONAL AND LOCAL PRESS**
- **BRAND LOYALTY ALREADY WELL ESTABLISHED IN MANY AREAS**
- **PROFITABLE TRADE TERMS**

Export Enquiries:
Carr, Godden & Co. Ltd.,
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Write for full details of GONNE and our other products:
G. R. LANE, CHARABS, LTD. Horton Road, Gloucester

DUREX *Gossamer*

now in NEW pocket packs



Now! Durex Gossamer comes to you in discreeter-than-ever new pack design, in pocket packs of either one dozen *or* quarter dozen.

Remember! More and more people are changing to Durex Gossamer, the Sensitol Lubricated Protective, for added sensitivity.



MAKE 4 SALES IN ONE!

Durex Gossamer is available in pocket packs of one dozen in the dignified new grey and white outer. Sales show an increasing demand for packs of one dozen and many of your customers will prefer them.

Your next order will be in this NEW packaging

LONDON RUBBER (INDUSTRIES) LTD.,
Chingford, London, E.4.

Sylvia
SANITARY TOWELS

Perfection in Protection

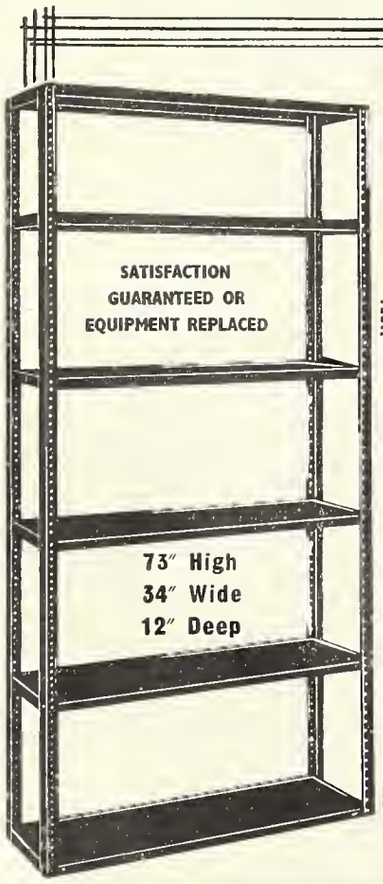
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ADVERTISING
CAMPAIGN

We are now advertising our well-known Sanitary Towel in "WOMAN", "WOMAN'S REALM", "WOMAN'S MIRROR" and "WOMAN AND HOME". The FREE SAMPLE OFFER made in this advertising will result in many enquiries in your shop from customers impressed by the quality of the product, and you will of course wish to meet the demand.

If you are not already a stockist, ask us to arrange a call from our Representative, or place an order now—this will be supplied immediately. Available direct from us only, Sylvia Sanitary Towels, at very reasonable prices will really satisfy your customers—their quality is outstanding.

A PRODUCT OF *Cuxson, Gerrard & Co. Ltd.* OLDBURY, BIRMINGHAM

Telephone: BROadwell 1355 (5 lines)



Heavy Gauge Steel
SHELVING

- Brand new—Manufactured in our own works.
- Shelves adjustable every inch.
- Heavy gauge shelves will carry 400 lb. distributed weight each.
- Stove enamelled dark green.
- 6 shelves per bay—Extra shelves 8/- each.
- Quantity discounts.

Other sizes available. Also available in white at £5 per bay

Unassembled, ready for erection

£3-15-0

DELIVERED FREE!
IN ENGLAND, SCOTLAND AND WALES

THE ONLY HEAVY GAUGE SHELVING AT THIS PRICE

N.C.BROWN LTD

Shelving Division, Heywood, Lancs. **Tel: 69018**



when a 'wait' becomes a 'congestion'

You're never alone with a virus!
When 'cold spell' viruses mount their massive winter attack, you can expect a throng of people in your shop with prescriptions for KARVOL—
today's simplest, most effective treatment for upper respiratory tract congestion.
KARVOL is easily expressed into hot water or on to handkerchief, pyjamas or pillow without fear of staining.
The handy, one dose KARVOL capsules fit easily into pocket or handbag . . .
provide instant relief anywhere, night or day.

Retail packing—Containers of 10 capsules

GENEROUS BONUS TERMS

13 to the dozen on 2 dozen (minimum) to 5 dozen
14 to the dozen on 6 dozen or more
on direct orders from retail pharmacists only

KARVOL
INHALANT CAPSULES

THE CROOKES LABORATORIES LIMITED · PARK ROYAL · LONDON NW10



more buy COOPER'S than any other aerosols

COOPER Mc DOUGALL & ROBERTSON LT

COOPER'S MEAN BUSINESS

Here's why

In a fast-growing market

ONLY COOPER'S GIVE YOU-

HEAVY ADVERTISING
Plus DISPLAYS
Plus MARGINS
Plus BONUSES
Plus PRICE MAINTENANCE

STOCK THESE ALL TIME WINNERS PLUS

Moth Proofer
Garden Spray
Dry Cleaner
Woodworm Killer
Window Cleaner
Ant Killer



COOPER AEROSOLS MEAN AEROSALES

BERKHAMSTED · HERTFORDSHIRE

62/H/1

THE LEADING HAIRDRESSING

BRYLCREEM

CAPTURES THE U.S.A. AND CELEBRATES WITH A BUMPER PROMOTION TO FURTHER INCREASE YOUR PROFITS

This is it! The big story! The success story of the Sixties! And we're going tell *everybody* about it during February and March. February 7th is B f Brylcreem Day, and a huge celebration promotion! Dynamic whole page ar half page advertisements in the National Press. Frequent 60-second commercia on TV And a great "America Calling" Competition to increase custom at yo counter. Prizes! 5 breathtaking holidays for two in New York (or cash equivale of £500) to be won!

MORE THAN EVER, BRYLCREEM MEANS BIG BUSINESS



AMERICAN IS BRITISH



Generous Bonus Terms for you!

Stock up with Brylcreem TUBES now! Look what you have to gain! Every dozen of both the Large and King size tubes ordered between now and 26th January, 1962, will be invoiced at the price of eleven. So the more tubes of Brylcreem you sell the bigger your profits will be.

Use the fabulous Promotional Material

Make sure you're instantly recognised as a Brylcreem tube stockist. The *greatest-ever* range of Brylcreem display material is available to you for the asking: competition announcements, posters, window stickers, scatter baskets, show stands, etc. Not forgetting, of course, competition entry forms and special holders for your counter. Never before such a wide and wonderful selection of sales aids.

£50 to stockists supplying entry forms to winners!

Competitors will be required to fill in on their entry form the name and address of the stockist from whom their Brylcreem tube was obtained. Every stockist supplying a winning customer will receive a cheque for £50.

BRYLCREEM—the BRITISH hairdressing that leads the world

For further details ask the County representative or write to County Laboratories Ltd., Beecham House West, Gt. West Road, Brentford, Middlesex.



coldrex

REG

2nd great phase of

TABLET PROMOTION

NEW YEAR MEANS NEW SALES PEAKS WITH THIS GREAT WINTER PUBLICITY DRIVE!

Bang at the start of 1962, and right through the winter, Coldrex reiterate their unique two-layer tablet story even more strongly in Television, Press and Display.

And this is how we're telling the Coldrex two-layer relief story, more forcibly than ever before

TELEVISION

Over 11,500,000 homes throughout th country will see these hard-hitting 30 & 1 sec. commercials 2 and 3 times a week o all I.T.V. stations.

PRESS

11" x 3 cols. & 8" x 2 cols. spaces weekly right through the winter, in all these papers

DAILY EXPRESS · DAILY HERALD
DAILY MAIL · DAILY MIRROR
DAILY TELEGRAPH · NEWS OF THE WORLD
PEOPLE · GLASGOW SUNDAY POST
BELFAST TELEGRAPH · GLASGOW DAILY RECOR

ANNOUNCE-

the BIGGEST COLD

EVER STARTING NOW!

DISPLAY For big profits

When we've done our part — then it's up to you. Cold relief seekers need the Coldrex reminder only **you** *can give them with greater Coldrex displays.*

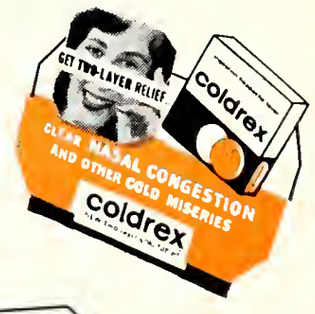
* KEEP YOUR STOCKS UP
* USE **COLDREX** DISPLAYS FULLY

Make sure you have all the display material you need. Further material gladly sent on request or from our representative.









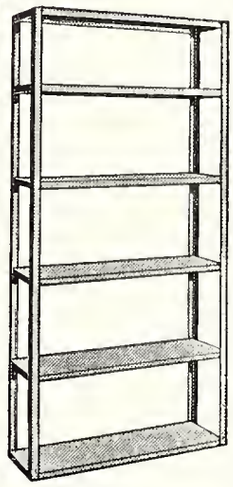


Put coldrex on your counter now—& be ready for the cold rush!

Phillips, Scott & Turner, St. Marks Hill, Surbiton, Surrey.

STEEL SHELVING

BRAND NEW HEAVY GAUGE



71 in. HIGH x 34 in. WIDE x 12 in. DEEP WITH 6 SHELVES AS ILLUSTRATED **60/-**

FREE delivery within 14 days. Northern Scotland, Ireland, I.O.M. carriage forward.

SEND CASH OR CHEQUE WITH ORDER. OR C.O.D. ENGLAND AND WALES.

Height	Width	Depth	Shelves	Each	3 or more	Ext. Shelves
71″	34″	12″	6	60/–	58/–	8/–
71″	34″	9″	6	58/–	56/–	7/–
85″	42″	12″	6	86/–	84/–	11/–
85″	34″	12″	6	68/–	66/–	8/–

OR ANY SIZE MADE TO ORDER.

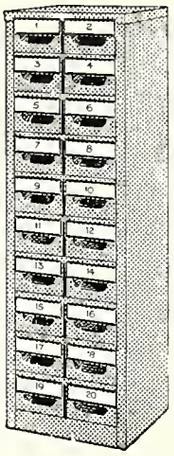
Each shelf will hold over 3 cwt. **Shelves adjustable every 2″** **Top quality stove enamelled green finish**

WHITE ENAMEL UNITS 30/- EXTRA.

HANDY DRAWER UNIT

BRAND NEW ONLY

£7-15-0



42″ high
13″ wide
12″ deep.

20 drawers
5″ wide
3″ high
11¼″ long.

Write now for list of other sizes.

BUY DIRECT FROM MANUFACTURER **ROCHDALE METAL PRODUCTS**
DEVON STREET WORKS
Tel. Rochdale 40070/40078



GOODS to European Markets

IN THROUGH WAGONS
every day
by TRAIN FERRY

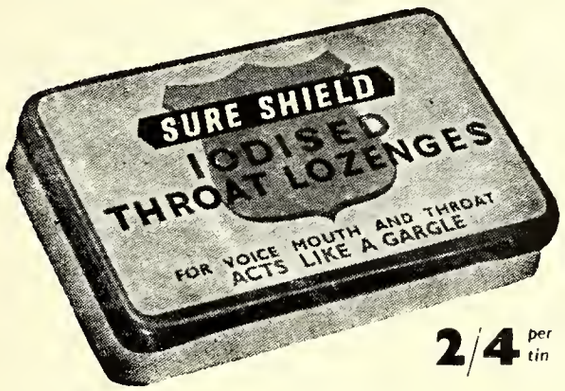
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DOVER—DUNKERQUE

Packing and handling absolute minimum

Full particulars from: Continental Traffic & Shipping Manager, Harwich House, 129 Bishopsgate, London, E.C.2. for Harwich route and Chief Shipping & Continental Manager, Victoria Station, London, S.W.1. for Dover route.

BRITISH RAILWAYS

Now is the time to order and display!



2/4 per tin

New improved formula

Now contains Cetyl Pyridinium Chloride

ALSO IN HEAT SEALED MOISTURE PROOF CARTONS **1/3½**

GENEROUS BONUS TERMS ON ASSORTED ORDERS OF 1 GROSS OR MORE

Attractive Show Material available

We specialise in Chemists "own name" packs, and can offer a prompt and efficient service. A very comprehensive range of official lozenges and pastilles in stock.

Enquire for Price List and direct buying terms to:

THOS. GUEST & CO LTD

Manufacturing Chemists
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MANCHESTER 4

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For many years we have been engaged in this field of manufacture with the result that we now offer the following, all of which, in their separate ways play an increasing and important part in the alleviation of suffering

ASPIRIN B.P.
PARACETAMOL PURE
SALICYLAMIDE PURE

The Symbol of GRAESSER GS SALICYLATES *Quality and Service*

We would welcome the opportunity of quoting our keenest prices and submitting samples.

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Why not use our service to build your own business? We also offer a free Advisory Service.

Colour or Monochrome . . . for the fastest, finest processing service.

SEND IT TO GRANT

Write today for full details and price list.

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6 ft. DISPLAY COUNTER



£27. 10. 0.

or £6. 10. 0 down and 12 monthly payments of £2.

Make the most of your displays with this handsome counter. Sliding glass doors and adjustable shelf. Light oak finish.

Dimensions: 72" long, 36" high (including 6" legs), 24" deep.

Delivered free by our own van to all areas

Send for Illustrated Brochure

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Regular sales assured with



Shadeine

– the permanent safe HOME tint for GREY hair

Still the best home tint for grey hair. All natural shades. Safe and harmless. Trade Prices—1 oz. 32/9 per dozen. 2 oz. 42/6 dozen. P. Tax 55%. Retail 5/2 and 6/8 per bottle respectively.

ALSO GOLDEN SHADEINE

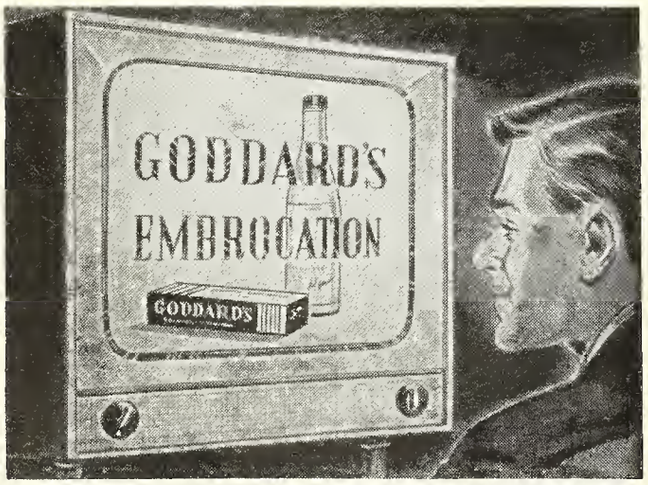
For brightening mousey hair. Trade Price—2 oz. size 32/9 per dozen. P. Tax 55%. Retail 5/2 per bottle.

THE SHADEINE COMPANY LTD.
49 CHURCHFIELD RD., ACTON, LONDON, W.3

Over SIXTY YEARS' Reputation

Shadeine

FWS



17 MILLION CUSTOMERS

for Goddard's Embrocation. 17 million viewers in London, in the South of England and throughout the Midlands know that Goddard's Embrocation will give soothing relief from rheumatism, bruises, sprains, strains, stiff joints, lumbago and sciatica, and when the chilly weather starts your customers will be asking for it. Display material available.



GODDARD'S EMBROCATION

Order now from your Wholesaler or from: J. G. Goddard & Co. Ltd., 100 Moncrieff Street, Peckham, London, S.E 15

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now is the time to stock up with

'NIAGARA' Blackcurrant Drink

THE BLACKCURRANT DRINK IN THE EYECATCHING

NEW PACK



Made from the finest blackcurrants and pure cane sugar, 'Niagara'—rich in Vitamin C—is the ideal health drink for both young and old. Make sure you have ample supplies, because 'Niagara' has 'year round' appeal. Display material available.

ORDER FROM YOUR WHOLESALER NOW!

A BARFOS COMPANY

PROCESSED BY

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Queensbridge Road, London, E.8. Tel: CLissold 7132

Head Office and Accounts: Niagara Works, Eagle Wharf Road, London, N.1

AP 130

What she wants and thousands like her is

LOTIL CREAM

INSTANT RELIEF FOR THEM

Good profits for you !



For painful cracked thumbs and fingertips, that trouble so many of your customers in winter, specially prepared LOTIL CREAM is a real boon and blessing. And with every tube of LOTIL you sell, you make not only a satisfied customer, but a profit of 1/1d. for yourself.



Lotil (REGD.)

3/3 a tube

Trade Price 21/2 per doz. plus 4/9 P.T. Retail 3/3 (inc. P.T.). Bonus terms—13 to the doz. on orders for 3 doz. 5% discount on orders for £5 which may include other John Bell lines.

JOHN BELL. HILLS & LUCAS LTD., Oxford Works, Worsley Bridge Road, London, S.E.26

NUCTA Bonnie SHAMPOO



The new formula liquid cream shampoo, packed for individual use in an entirely new type of plastic container—an upstanding tubette gaily coloured with a tartan motif and representing a definite step forward as regards both pack and product.

CREAMY AND FRAGRANT
SUITABLE FOR ALL TYPES OF HAIR

RETAIL PRICE PER TUBETTE 9d

The formula for NUCTA BONNIE SHAMPOO is balanced to give a rich creamy lather and emolliency, with no trace of harsh after-effects. It contains special ingredients to ensure extra cleansing and tonic action on the scalp resulting in added beauty for the hair. No other shampoo leaves hair so soft, lustrous and sparkling.

The tubettes of NUCTA BONNIE SHAMPOO are so attractive that when displayed on the counter, customers cannot resist reaching for them in admiration—and at 9d. per tubette, it's a sure sale every time. Packed in cartons of 3 dozen.

TRADE PRICE 5/1 PER DOZEN (PLUS PURCHASE TAX)

AVAILABLE FROM YOUR USUAL WHOLESALER OR DIRECT FROM THE MANUFACTURERS OF NUCTA PRODUCTS

STEWART, GOODALL & DUNLOP LTD., 121a PRINCES STREET, EDINBURGH, SCOTLAND

"RELIANCE" NATURAL SPONGES

RELIANCE FINEST QUALITY SPONGE

Natural Deep Sea Sponges

To display a natural deep sea sponge is to sell it—because discriminating customers know that it is softer and kinder to the skin, and more lasting and more hygienic than any substitute—as well as holding three times as much water.

Cresswell's offer the best of the sponge crop. Please write for our price lists, and when in the West End of London a visit to make your own selection is welcomed.

CRESSWELL BROS. SPONGES

3-9, EARLHAM STREET, CAMBRIDGE CIRCUS, LONDON, W.C.2

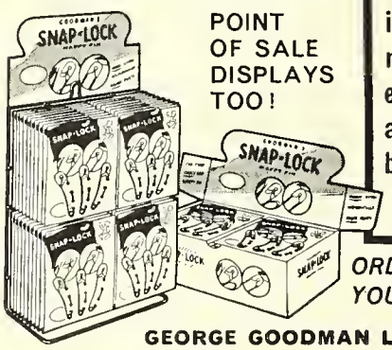
TELEPHONE TEMple Bar 5331

GOODMAN'S SNAP-LOCK



THE NAPPY PIN that sells on SAFETY!

* **Double safety cap means it can never open accidentally**
* **Never rusts**
* **Attractive cards of 3 pins for 1/- and 5 for 1/6, retail**



POINT OF SALE DISPLAYS TOO!

* **REGULAR ADVERTISING** in six national magazines read by expectant mothers and mothers with babies.

ORDER NOW THROUGH YOUR WHOLESALER

GEORGE GOODMAN LTD, BIRMINGHAM 28

THIS IS THE THEME



OF THE NEW TORBET ADVERTISING

Why not inform your customers about

TORBET CALSALETTES	1/8½	&	6/9
TORBET LACTIC OATS	2/2	&	4/3

TORBET LACTIC OAT CO. LTD., 24, Great King Street, Edinburgh, 3.

BUTTERSCOTCH BRAND

Malt and Cod Liver Oil

With the flavour that CANNOT be copied

We are the premier firm supplying Chemists "own name" packs

IMPORTANT

Make sure of your stocks against the possibility of severe Winter epidemics.

JEFFREYS, MILLER & COMPANY LIMITED, LEYLAND MILLS WIGAN

An important announcement from *Bronco* Ltd

with immediate effect, the retail selling price of Bronco flat packets, in all colours, will be increased to 1/2. This means that fast-selling Bronco will bring you bigger profits than ever. The price increase—the first in seven years—has been compelled by rising production costs. Bronco roll prices remain unchanged. At 1/2, Bronco flat packets are still the unchallenged market leaders for quantity and quality. Your wholesaler will tell you about the January bonus.

BRONCO LTD. HACKNEY WICK LONDON, E.9.

EDME
"Autumn Sun"
EXTRACT OF MALT
WITH COD LIVER OIL (B.P.)
WITH FLAVOURING

THE CHOICE OF THE FIRST CLASS CHEMIST

Prices on request

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- CAMERAS
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- BLACK AND WHITE FILMS

Order summer stocks NOW

AND DEFER PAYMENT UNTIL JUNE – JULY AND AUGUST

No deposit with Order

Write for full details

GNOME PHOTOGRAPHIC PRODUCTS LTD
CAERPHILLY RD., CARDIFF

Sold for over 150 years

SOLAZZI THE CHEMISTS' BRAND



The words SOLAZZI and LIQUORICE have become very nearly synonymous. Loosens phlegm, soothes bronchitis and asthma, prevents infection of the air passages (smog and smoke). A modern medicament in digestive disorders and gastric ulcers.

Can be obtained from all wholesalers

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Chemists' Transfer Agents and Valuers
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(opposite St. Pancras and King's Cross Stations)

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BUSINESSES urgently required
STOCKTAKING for Income Tax purposes
TRANSFERS without publicity our speciality

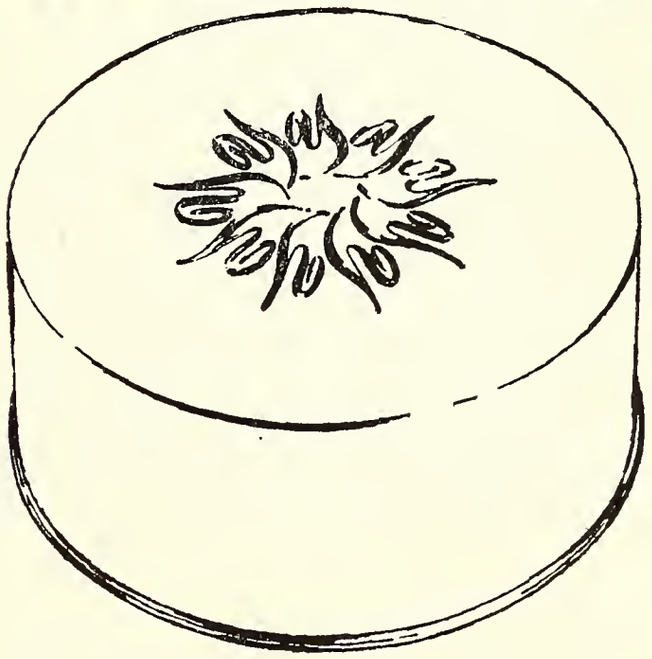
All Valuations and Stocktakings, carried out under personal supervision of principals.

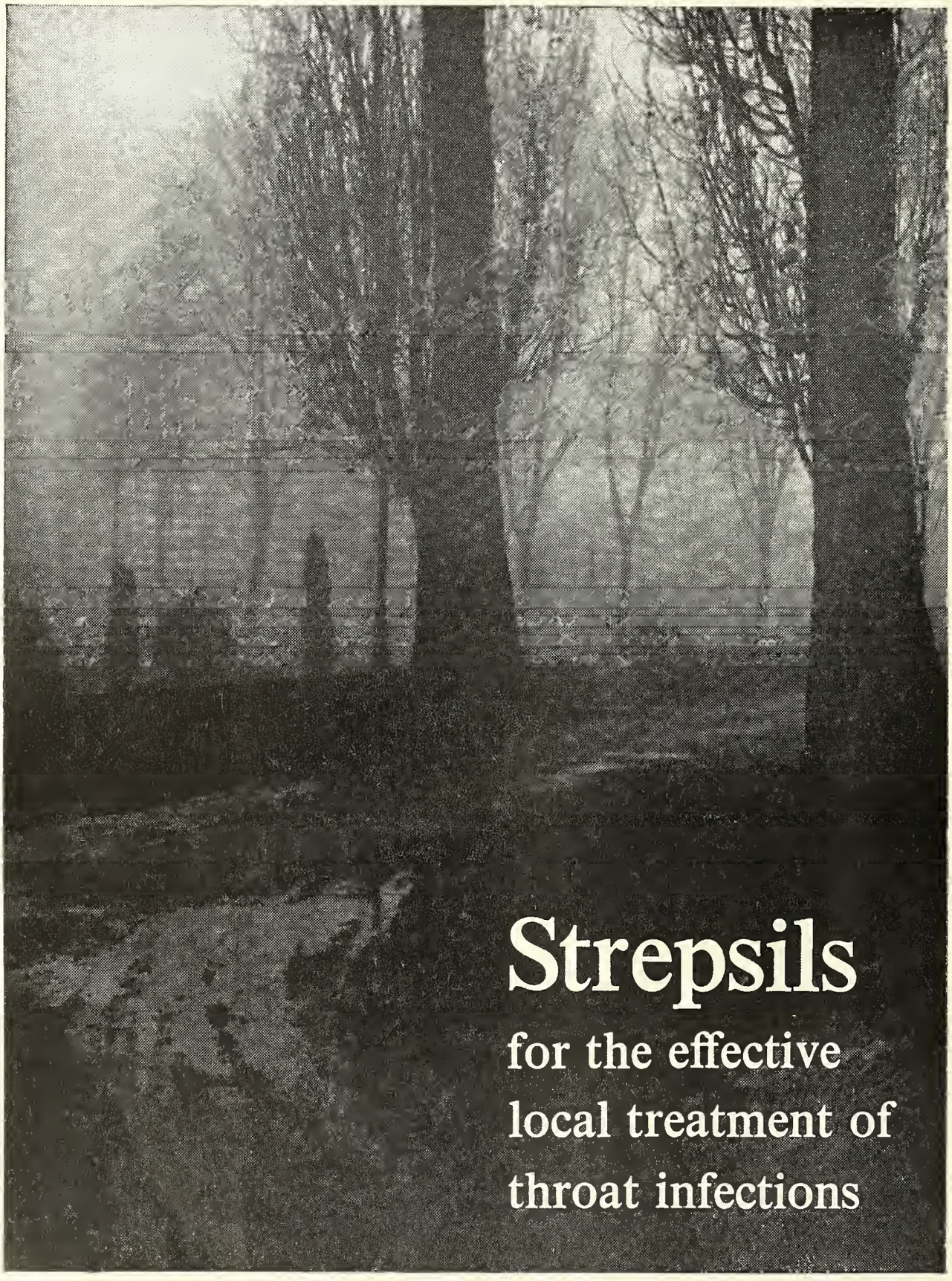
Established 1870 Phone: TERminus 3574

PRESENTING A **NEW** PINK AND GOLD POWDER **BOX** FROM

YARDLEY

Available in all shades:
English Peach
Cameo
Pink Pearl
Rose Pearl
Pink Champagne
Honey Glow
Rose Rachel
and Mediterranean.
There will be
no change in price.
Your Yardley representative will show you a sample on his next visit.





FORMULA*: each lozenge contains 1.2 mg of Dybenal and 0.6 mg of amyl-*meta*-cresol
*(British Patent No. 865672)

RETAIL PRICE: 2/3d. per tin of 24 lozenges

AVAILABLE FROM YOUR USUAL WHOLESALER

or from WHOLESALE DIVISION · BOOTS PURE DRUG CO. LTD · STATION STREET · NOTTINGHAM · Tel: Nottingham 56111
or 71 FLEET STREET · LONDON E.C.4 · Tel: FLEet Street 0111.

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A BOOTS MEDICAL PRODUCT

The CHEMIST AND DRUGGIST
CLASSIFIED ADVERTISEMENTS

Telephone: CENtral 6565

Address Box Number Replies to: THE CHEMIST AND DRUGGIST, 28 ESSEX ST., STRAND, LONDON, W.C.2

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Senior Pharmacist

for Bethnal Green Hospital. Modern department approved for training students. Salary scale £770—£1,010 p.a. plus higher qualification allowance and London Weighting. Please apply to the Group Secretary, 213 Kingsland Road, London, E.2. C 553

CENTRAL MIDDLESEX HOSPITAL, PARK ROYAL, LONDON, N.W.10
Pharmacist or Assistant-in-Dispensing

required. Applications giving full particulars and the names of two referees to the Medical Director as soon as possible. C 7113

CITY GENERAL HOSPITAL, SHEFFIELD, 5 (Category V Hospital)
Senior Pharmacist

required. Opportunity to gain or extend experience in Hospital pharmacy at this active General Hospital, which is also the central pharmacy of a group of approximately 2,000 beds.
Accommodation may be made available for a female applicant for which an appropriate charge will be made. Whitley Council salary scales and conditions of service.
Apply giving full details of age, experience, etc., and the names of two persons for reference to the Hospital Secretary. C 7111

SPRINGFIELD HOSPITAL, LONDON, S.W.17
Senior Pharmacist

required, permanent appointment. Salary £700—£1,010 per annum plus London Weighting.
Applications to Group Secretary, Springfield Hospital, Beechcroft Road, London, S.W.17, giving age, qualifications, details of experience and the names of two referees. C 567

HERTS & ESSEX GENERAL HOSPITAL, BISHOP'S STORTFORD, HERTS
Senior Pharmacist or Pharmacist

required. Commencing salary for Health Service applicants £690—£1,010 according to previous Hospital Service and for new entrants to N.H.S. £690—£815 p.a. Salary and conditions of service in accordance with Whitley Pharmaceutical Council. Successful applicant will be under direction of Chief Pharmacist and primarily attached to Herts and Essex General Hospital (354 beds), but may be required to work from time to time in same Group at Hertford County Hospital (166 beds).
Applications, giving age, experience and qualifications, together with names and address of two referees, to Hospital Secretary. C 7097

LAMBETH HOSPITAL, BROOK DRIVE, S.E.11 (acute general—499 beds)
Assistant-in-Dispensing

required. Whitley Council rates. Applications, stating age, experience and names of two referees to the Secretary. C 578

MOTHERS' HOSPITAL (SALVATION ARMY), CLAPTON, E.5 (110 beds, Maternity)
Assistant-in-Dispensing (full-time)

required for the above hospital. Apply with full details of experience, qualifications, etc., to Group Secretary, Hackney Hospital, London, E.9. C 579

THREE COUNTIES HOSPITAL, ARLESEY, BEDFORDSHIRE
Assistant-in-Dispensing

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MORGANNWG HOSPITAL MANAGEMENT COMMITTEE
Assistant-in-Dispensing

Applications are invited for the above appointment at the Morgannwg Hospital, Bridgend. The appointment is subject to the terms and conditions of the appropriate Whitley Council. The salary will be according to age up to 21 years years commencing at £195 at 16 years and for persons 22 years and over a scale of £425 by 7 annual increments to a maximum of £575 per annum.
Additional payment of £50 for approved qualifications.
Applications stating age, qualifications, experience, present and previous appointments, together with the names and addresses of two referees, should be sent to the Group Secretary, Morgannwg Hospital, Bridgend, Glamorgan, and received not later than the 29th January, 1962. C 4303

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Pharmacist

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Assistant-in-Dispensing

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Assistant-in-Dispensing

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Pharmacists

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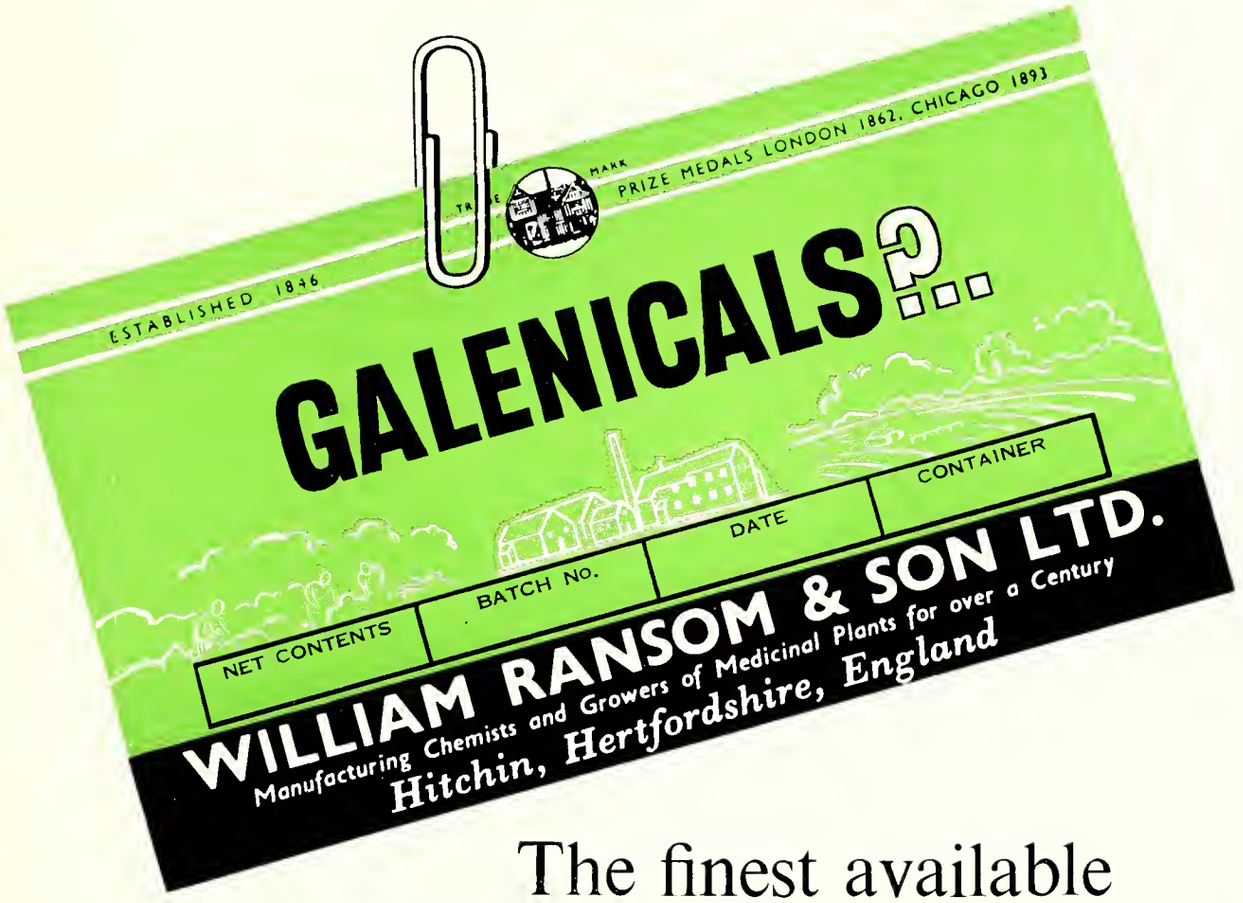
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